

**SPARC Enterprise M3000/M4000/M5000/
M8000/M9000 Servers**

XSCF Reference Manual for XCP Version 1100



ORACLE



SPARC

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Preface

This manual contains the man pages for the XSCF firmware for SPARC Enterprise M3000/M4000/M5000/M8000/M9000 servers from Oracle and Fujitsu.

Some references to server names and document names are abbreviated for readability. For example, if you see a reference to the M9000 server, note that the full product name is the SPARC Enterprise M9000 server. And if you see a reference to the *XSCF Reference Manual*, note that the full document name is the *SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF Reference Manual*.

Before reading this document, you should read the overview guide for your server and the *SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Administration Guide*.

At publication of this document, servers described herein were shipping with XCP 1100 firmware installed. That might no longer be the latest available version, or the version now installed. Always see the Product Notes that apply to the firmware on your server, and those that apply to the latest firmware release.

This chapter includes the following sections:

- [“Audience” on page x](#)
- [“Related Documentation” on page x](#)
- [“Text Conventions” on page xii](#)
- [“Syntax of the Command-Line Interface \(CLI\)” on page xii](#)
- [“Documentation Feedback” on page xiii](#)

Audience

This manual is written for experienced system administrators with working knowledge of computer networks and advanced knowledge of the Oracle Solaris Operating System (Oracle Solaris OS).

Related Documentation

All documents for your server are available online. For the web location of these documents, refer to the getting started guide packaged with your server.

Please check for the most recent version of product notes for your server. Product Notes are available only online.

Note – For Sun Oracle software-related manuals (Oracle Solaris OS, and so on), go to <http://docs.sun.com>.

Book Title	Sun/Oracle	Fujitsu
<i>SPARC Enterprise M3000 Server Site Planning Guide</i>	820-5580	C120-H030
<i>SPARC Enterprise M4000/M5000 Servers Site Planning Guide</i>	819-2205	C120-H015
<i>SPARC Enterprise M8000/M9000 Servers Site Planning Guide</i>	819-4203	C120-H014
<i>SPARC Enterprise Equipment Rack Mounting Guide</i>	819-5367	C120-H016
<i>SPARC Enterprise M3000 Server Getting Started Guide*</i>	821-3055	C120-E536
<i>SPARC Enterprise M4000/M5000 Servers Getting Started Guide*</i>	821-3045	C120-E345
<i>SPARC Enterprise M8000/M9000 Servers Getting Started Guide*</i>	821-3049	C120-E323
<i>SPARC Enterprise M3000 Server Overview Guide</i>	820-5579	C120-E537
<i>SPARC Enterprise M4000/M5000 Servers Overview Guide</i>	819-2204	C120-E346
<i>SPARC Enterprise M8000/M9000 Servers Overview Guide</i>	819-4204	C120-E324
<i>SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Important Legal and Safety Information*</i>	821-2098	C120-E633
<i>SPARC Enterprise M3000 Server Safety and Compliance Guide</i>	820-5582	C120-E538
<i>SPARC Enterprise M4000/M5000 Servers Safety and Compliance Guide</i>	819-2203	C120-E348

Book Title	Sun/Oracle	Fujitsu
<i>SPARC Enterprise M8000/M9000 Servers Safety and Compliance Guide</i>	819-4201	C120-E326
<i>External I/O Expansion Unit Safety and Compliance Guide</i>	819-1143	C120-E457
<i>SPARC Enterprise M4000 Server Unpacking Guide*</i>	821-3043	C120-E349
<i>SPARC Enterprise M5000 Server Unpacking Guide*</i>	821-3044	C120-E350
<i>SPARC Enterprise M8000/M9000 Servers Unpacking Guide*</i>	821-3047	C120-E327
<i>SPARC Enterprise M3000 Server Installation Guide</i>	820-5684	C120-E539
<i>SPARC Enterprise M4000/M5000 Servers Installation Guide</i>	819-2211	C120-E351
<i>SPARC Enterprise M8000/M9000 Servers Installation Guide</i>	819-4200	C120-E328
<i>SPARC Enterprise M3000 Server Service Manual</i>	820-5683	C120-E540
<i>SPARC Enterprise M4000/M5000 Servers Service Manual</i>	819-2210	C120-E352
<i>SPARC Enterprise M8000/M9000 Servers Service Manual</i>	819-4202	C120-E330
<i>External I/O Expansion Unit Installation and Service Manual</i>	819-1141	C120-E329
<i>SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Administration Guide</i>	821-2794	C120-E331
<i>SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide</i>	821-2797	C120-E332
<i>SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF Reference Manual</i>	Varies per release	Varies per release
<i>SPARC Enterprise M4000/M5000/M8000/M9000 Servers Dynamic Reconfiguration (DR) User's Guide</i>	821-2796	C120-E335
<i>SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide</i>	821-2795	C120-E336
<i>SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Product Notes[†]</i>	Varies per release	Varies per release
<i>SPARC Enterprise M3000 Server Product Notes</i>	Varies per release	Varies per release
<i>SPARC Enterprise M4000/M5000 Servers Product Notes</i>	Varies per release	Varies per release
<i>SPARC Enterprise M8000/M9000 Servers Product Notes</i>	Varies per release	Varies per release
<i>External I/O Expansion Unit Product Notes</i>	819-5324	C120-E456
<i>SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Glossary</i>	821-2800	C120-E514

* This is a printed document

† Beginning with the XCP 1100 release

Text Conventions

This manual uses the following fonts and symbols to express specific types of information.

Font/symbol	Meaning	Example
AaBbCc123	What you type, when contrasted with on-screen computer output. This font represents the example of command input in the frame.	XSCF> adduser jsmith
AaBbCc123	The names of commands, files, and directories; on-screen computer output. This font represents the example of command output in the frame.	XSCF> showuser -P User Name: jsmith Privileges: useradm auditadm
<i>Italic</i>	Indicates the name of a reference manual, a variable, or user-replaceable text.	See the <i>SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide</i>
" "	Indicates names of chapters, sections, items, buttons, or menus.	See Chapter 2, "System Features."

Syntax of the Command-Line Interface (CLI)

The command syntax is as follows:

- A variable that requires input of a value must be put in *Italics*.
- An optional element must be enclosed in [].
- A group of options for an optional keyword must be enclosed in [] and delimited by |.

Documentation Feedback

If you have any comments or requests regarding this document, go to the following web sites.

- For Oracle users: <http://docs.sun.com>
- For Fujitsu users in U.S.A., Canada, and Mexico:

[http://www.computers.us.fujitsu.com/www/support_servers.shtml?
support/servers](http://www.computers.us.fujitsu.com/www/support_servers.shtml?support/servers)

- For Fujitsu users in other countries, refer to this SPARC Enterprise contact:

[http://www.fujitsu.com/global/contact/computing/sparce_index.h
tml](http://www.fujitsu.com/global/contact/computing/sparce_index.html)

REFERENCE

User and System Administration
Commands

NAME	Intro - list the commands provided by the XSCF firmware																										
DESCRIPTION	<p>This Intro page lists the user commands (<code>exit(1)</code>, <code>man(1)</code>, and <code>who(1)</code>) and system administration commands (all the others, beginning with <code>addboard(8)</code>) provided by the XSCF firmware of the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 servers. Some XSCF commands have the same name as their Oracle Solaris OS counterpart, but function slightly differently. For details, refer to the man page for each command.</p> <p>The following commands are supported:</p> <table> <tr> <td><code>exit</code></td><td>exit the XSCF shell</td></tr> <tr> <td><code>man</code></td><td>display manual pages of specified XSCF shell command</td></tr> <tr> <td><code>who</code></td><td>display a list of the user accounts who are logged in to the XSCF</td></tr> <tr> <td><code>addboard</code></td><td>configure an eXtended System Board (XSB) into the domain configuration or assign it to the domain configuration</td></tr> <tr> <td><code>addcodactivation</code></td><td>add a Capacity on Demand (COD) hardware activation key (COD key) to the COD database</td></tr> <tr> <td><code>addcodlicense</code></td><td>add a Capacity on Demand (COD) right-to-use (RTU) license key to the COD license database</td></tr> <tr> <td><code>addfru</code></td><td>add a Field Replaceable Unit (FRU)</td></tr> <tr> <td><code>adduser</code></td><td>create an XSCF user account</td></tr> <tr> <td><code>applynetwork</code></td><td>apply XSCF network information to the XSCF</td></tr> <tr> <td><code>cfgdevice</code></td><td>connect the CD-RW/DVD-RW drive unit and the tape drive unit to the port, disconnect it from the port, or display the status of the drive</td></tr> <tr> <td><code>clockboard</code></td><td>set or display the clock control unit used at system startup</td></tr> <tr> <td><code>console</code></td><td>connect to a domain console</td></tr> <tr> <td><code>deleteboard</code></td><td>disconnect an eXtended System Board (XSB) from the domain configuration</td></tr> </table>	<code>exit</code>	exit the XSCF shell	<code>man</code>	display manual pages of specified XSCF shell command	<code>who</code>	display a list of the user accounts who are logged in to the XSCF	<code>addboard</code>	configure an eXtended System Board (XSB) into the domain configuration or assign it to the domain configuration	<code>addcodactivation</code>	add a Capacity on Demand (COD) hardware activation key (COD key) to the COD database	<code>addcodlicense</code>	add a Capacity on Demand (COD) right-to-use (RTU) license key to the COD license database	<code>addfru</code>	add a Field Replaceable Unit (FRU)	<code>adduser</code>	create an XSCF user account	<code>applynetwork</code>	apply XSCF network information to the XSCF	<code>cfgdevice</code>	connect the CD-RW/DVD-RW drive unit and the tape drive unit to the port, disconnect it from the port, or display the status of the drive	<code>clockboard</code>	set or display the clock control unit used at system startup	<code>console</code>	connect to a domain console	<code>deleteboard</code>	disconnect an eXtended System Board (XSB) from the domain configuration
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<code>deletecodactivation</code>	remove a Capacity on Demand (COD) hardware activation key (COD key) from the COD database
<code>deletecodlicense</code>	remove a Capacity on Demand (COD) right-to-use (RTU) license key from the COD license database
<code>deletefru</code>	delete a Field Replaceable Unit (FRU)
<code>deleteuser</code>	delete an XSCF user account
<code>disableuser</code>	disable an XSCF user account
<code>dumpconfig</code>	save system configuration information to a file
<code>enableuser</code>	enable an XSCF user account
<code>flashupdate</code>	update the firmware
<code>fmadm</code>	fault management configuration tool
<code>fmdump</code>	view fault management logs
<code>fmstat</code>	report fault management module statistics
<code>getflashimage</code>	download a firmware image file
<code>ioxadm</code>	manage External I/O Expansion Units and add-in cards that contain Energy Storage Modules and are attached to the host system
<code>moveboard</code>	move an eXtended System Board (XSB) from the current domain to another
<code>nslookup</code>	refer to the DNS server for the host
<code>password</code>	manage user passwords and expiration settings
<code>ping</code>	send the ICMP ECHO_REQUEST packets to the network host or the network device
<code>poweroff</code>	turn off the power to the specified domain
<code>poweron</code>	turn on the power to the specified domain
<code>prtfru</code>	display FRUID data on the system and External I/O Expansion Unit

<code>deletecodactivation</code>	remove a Capacity on Demand (COD) hardware activation key (COD key) from the COD database
<code>deletecodlicense</code>	remove a Capacity on Demand (COD) right-to-use (RTU) license key from the COD license database
<code>deletefru</code>	delete a Field Replaceable Unit (FRU)
<code>deleteuser</code>	delete an XSCF user account
<code>disableuser</code>	disable an XSCF user account
<code>dumpconfig</code>	save system configuration information to a file
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<code>fmadm</code>	fault management configuration tool
<code>fmdump</code>	view fault management logs
<code>fmstat</code>	report fault management module statistics
<code>getflashimage</code>	download a firmware image file
<code>ioxadm</code>	manage External I/O Expansion Units and add-in cards that contain Energy Storage Modules and are attached to the host system
<code>moveboard</code>	move an eXtended System Board (XSB) from the current domain to another
<code>nslookup</code>	refer to the DNS server for the host
<code>password</code>	manage user passwords and expiration settings
<code>ping</code>	send the ICMP ECHO_REQUEST packets to the network host or the network device
<code>poweroff</code>	turn off the power to the specified domain
<code>poweron</code>	turn on the power to the specified domain
<code>prtfru</code>	display FRUID data on the system and External I/O Expansion Unit

<code>rebootxscf</code>	reset the XSCF
<code>replacefru</code>	replace a field replaceable unit (FRU)
<code>reset</code>	reset the specified domain
<code>resetdateoffset</code>	reset time of domains to match system time
<code>restoreconfig</code>	restore the system configuration information previously saved by <code>dumpconfig</code>
<code>restoredefaults</code>	restore factory settings of the server or XSCF unit
<code>sendbreak</code>	send a break signal to the specified domain
<code>setad</code>	configure Active Directory
<code>setaltitude</code>	set the altitude of the system or whether or not the air filter installed
<code>setarchiving</code>	configure the log archiving functionality
<code>setaudit</code>	manage the system auditing functionality
<code>setautologout</code>	set the session timeout time of the XSCF shell
<code>setcod</code>	set up the Capacity on Demand (COD) resources used for domains
<code>setdate</code>	set the date and time of XSCF
<code>setdcl</code>	set a domain component list (DCL)
<code>setdomainmode</code>	set the modes of operation for the specified domain
<code>setdomparam</code>	forcibly rewrite OpenBoot PROM environment variables
<code>setdscp</code>	set the IP address assignments for the Domain to Service Processor Communications Protocol (DSCP)
<code>setdualpowerfeed</code>	set dual power feed mode
<code>setemailreport</code>	set up the email report configuration data
<code>sethostname</code>	set a host name and a DNS domain name for an XSCF unit

<code>sethttps</code>	start or stop the HTTPS service, which is used in the XSCF network. This command also performs authentication-related settings
<code>setldap</code>	configure the Service Processor as a Lightweight Directory Access Protocol (LDAP) client
<code>setldapssl</code>	configure LDAP/SSL
<code>setlocale</code>	set the default locale of the XSCF
<code>setlocator</code>	control the blinking of the CHECK LED on the operator panel
<code>setloginlockout</code>	enable or disable login lockout feature
<code>setlookup</code>	enable or disable the use of the Lightweight Directory Access Protocol (LDAP) server for authentication and privilege lookup
<code>setnameserver</code>	set the domain name system (DNS) servers and the DNS search paths used in the XSCF network
<code>setnetwork</code>	set or remove an XSCF network interface
<code>setntp</code>	set the NTP servers used on the XSCF network, the stratum value, the preferred server and the clock address of the local clock of XSCF
<code>setpacketfilters</code>	set the IP packet filtering rules to be used in the XSCF network
<code>setpasswordpolicy</code>	manage the system password policy
<code>setpowerupdelay</code>	set the warm-up time of the system and wait time before system startup
<code>setprivileges</code>	assign user privileges
<code>setroute</code>	set routing information for an XSCF network interface
<code>setshutdowndelay</code>	set the shutdown wait time at power interruption of the uninterruptible power supply (UPS)
<code>setsmtp</code>	set up the Simple Mail Transfer Protocol (SMTP) settings

<code>setsnmp</code>	manage the SNMP agent
<code>setsnmpusm</code>	specify the SNMPv3 agent's User-based Security Model (USM) configuration
<code>setsnmpvacm</code>	modify the SNMPv3 agent's View-based Access Control Model (VACM) configuration
<code>setssh</code>	configure the settings for the Secure Shell (SSH) service used in the XSCF network
<code>settelnet</code>	start or stop the Telnet service used in the XSCF network
<code>settimezone</code>	set the time zone and Daylight Saving Time of XSCF
<code>setupfru</code>	set up device hardware
<code>setupplatform</code>	set up platform specific settings
<code>showad</code>	show Active Directory configuration and messages
<code>showaltitude</code>	display the altitude of the system and whether the air filter installed
<code>showarchiving</code>	display log archiving configuration and status
<code>showaudit</code>	display the current auditing system state
<code>showautologout</code>	display the session timeout time of the XSCF shell
<code>showboards</code>	display information on an eXtended System Board (XSB)
<code>showcod</code>	display Capacity on Demand (COD) information
<code>showcodactivation</code>	display the current Capacity on Demand (COD) hardware activation permits (COD permits) stored in the COD database
<code>showcodlicense</code>	display the current Capacity on Demand (COD) right-to-use (RTU) licenses stored in the COD license database
<code>showcodusage</code>	display the current usage statistics for Capacity on Demand (COD) resources

<code>showconsolepath</code>	displays information on the domain console that is currently connected
<code>showdate</code>	display the date and time of XSCF
<code>showdateoffset</code>	display the time differences between the time of the system and the time of the domains
<code>showdcl</code>	display the current domain component list (DCL)
<code>showdevices</code>	display current information on an eXtended System Board (XSB)
<code>showdomainmode</code>	display the modes of operation for the specified domain
<code>showdomainstatus</code>	display the current domain component list (DCL)
<code>showdscp</code>	display the IP addresses assigned to the Domain to Service Processor Communications Protocol (DSCP)
<code>showdualpowerfeed</code>	display the current setting of dual power feed mode
<code>showemailreport</code>	display the email report configuration data
<code>showenvironment</code>	display the airflow volume, intake air temperature and humidity, temperature sensor, voltage sensor, fan speed, and power consumption information in the server
<code>showfru</code>	display the hardware settings of specified device
<code>showhardconf</code>	display information about field replaceable unit (FRU) installed in the system
<code>showhostname</code>	display the current host name for the XSCF unit
<code>showhttps</code>	display the status of the HTTPS service set for the XSCF network
<code>showldap</code>	display the Lightweight Directory Access Protocol (LDAP) configuration for the Service Processor

<code>showldapssl</code>	show LDAP/SSL configuration and messages
<code>showlocale</code>	display the current setting for the XSCF locale
<code>showlocator</code>	display the state of the CHECK LED on the operator panel
<code>showloginlockout</code>	display the account lockout setting
<code>showlogs</code>	display the specified log
<code>showlookup</code>	display the configuration for authentication and privileges lookup
<code>showmonitorlog</code>	display the contents of monitoring messages in real time
<code>shownameserver</code>	display the registered domain name system (DNS) servers and the DNS search paths specified on the XSCF network
<code>shownetwork</code>	display information of network interfaces for XSCF
<code>shownotice</code>	display copyright and license information for the XSCF Control Package (XCP)
<code>showntp</code>	display the NTP information which currently set for XSCF
<code>showpacketfilters</code>	show the IP packet filtering rules that are set in the XSCF network
<code>showpasswordpolicy</code>	display the current password settings
<code>showpowerupdelay</code>	display the current settings for the warm-up time of the system and wait time before system startup
<code>showresult</code>	display the exit status of the most recently executed command
<code>showroute</code>	display routing information for an XSCF network interface
<code>showshutdowndelay</code>	display the shutdown wait time at power interruption of the uninterruptible power supply (UPS)

<code>showsmtp</code>	display the Simple Mail Transfer Protocol (SMTP) configuration information
<code>showsnmp</code>	display the configuration information and current status of the SNMP agent
<code>showsnmpusm</code>	display the current User-based Security Model (USM) information for the SNMP agent
<code>showsnmpvacm</code>	display the current View-based Access Control Access (VACM) information for the SNMP agent
<code>showssh</code>	display the settings of the Secure Shell (SSH) service that configured for the XSCF network
<code>showstatus</code>	display the degraded Field Replaceable Units (FRUs)
<code>showtelnet</code>	display the current status of the Telnet service for the XSCF network
<code>showtimezone</code>	display the XSCF time zone and Daylight Saving Time information of current settings
<code>showuser</code>	display user account information
<code>snapshot</code>	collect and transfer environment, log, error, and FRUID data
<code>switchscf</code>	switch the XSCF unit between the active and standby states
<code>testsb</code>	perform an initial diagnosis of the specified physical system board (PSB)
<code>traceroute</code>	display the route packets take to the specified network host or the network device
<code>unlockmaintenance</code>	forcibly release the locked status of XSCF
<code>version</code>	display firmware version
<code>viewaudit</code>	display audit records

REFERENCE

User Commands

NAME	exit - exit the XSCF shell
SYNOPSIS	exit
DESCRIPTION	The <code>exit(1)</code> command exits and closes the XSCF shell.
Privileges	No privileges are required to run this command. Refer to <code>setprivileges(8)</code> for more information.

exit(1)



NAME	man - display manual pages of specified XSCF shell command										
SYNOPSIS	<p>man <i>command_name</i>...</p> <p>man -h</p>										
DESCRIPTION	man(1) displays manual pages of specified XSCF shell command.										
Privileges	<p>No privileges are required to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>										
OPTIONS	<p>The following option is supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> </table>	-h	Displays usage statement. When used with other options or operands, an error occurs.								
-h	Displays usage statement. When used with other options or operands, an error occurs.										
OPERANDS	<p>The following operand is supported:</p> <table> <tr> <td><i>command_name</i></td><td>Specifies the command name whose manual page is displayed. Multiple <i>command_name</i> can be specified by delimited the spaces.</td></tr> </table>	<i>command_name</i>	Specifies the command name whose manual page is displayed. Multiple <i>command_name</i> can be specified by delimited the spaces.								
<i>command_name</i>	Specifies the command name whose manual page is displayed. Multiple <i>command_name</i> can be specified by delimited the spaces.										
EXTENDED DESCRIPTION	<p>■ If the relevant manual page is too long, the page is divided into pages that each can fit on one screen. In such cases, the following key operations are available:</p> <table> <tr> <th>Key</th><th>Description</th></tr> <tr> <td>Enter</td><td>Displays the next line.</td></tr> <tr> <td>space</td><td>Displays the next page.</td></tr> <tr> <td>b</td><td>Goes back half a page.</td></tr> <tr> <td>q</td><td>Quits display of the page in the manual.</td></tr> </table> <p>■ If intro is specified for <i>command_name</i>, a list of XSCF shell commands is displayed.</p>	Key	Description	Enter	Displays the next line.	space	Displays the next page.	b	Goes back half a page.	q	Quits display of the page in the manual.
Key	Description										
Enter	Displays the next line.										
space	Displays the next page.										
b	Goes back half a page.										
q	Quits display of the page in the manual.										
EXAMPLES	<p>EXAMPLE 1 Displays the manual page of the addboard(8) command.</p> <pre>XSCF> man addboard</pre> <p>EXAMPLE 2 Displays a list of XSCF shell commands.</p> <pre>XSCF> man intro</pre>										

EXIT STATUS	The following exit values are returned:
0	Successful completion
>0	An error occurred.

NAME	who - display a list of the user accounts who are logged in to the XSCF
SYNOPSIS	who who -h
DESCRIPTION	<p>who(1) displays a list of the user accounts who are logged in to the XSCF.</p> <p>The following information is displayed:</p> <ul style="list-style-type: none"> ■ XSCF user account name ■ Terminal used ■ Idle time ■ Login time ■ Remote host name
Privileges	<p>No privileges are required to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following option is supported:</p> <p>-h Displays usage statement.</p>
EXAMPLES	<p>EXAMPLE 1 Displays a list of the user accounts who are logged in to the XSCF.</p> <pre>XSCF> who USER TTY IDLE FROM HOST scf pts/0 00:00m Dec 21 13:57 JJJJ.ggg.Company.com</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>

who(1)



R E F E R E N C E

System Administration

NAME	addboard - configure an eXtended System Board (XSB) into the domain configuration or assign it to the domain configuration						
SYNOPSIS	<p>addboard [[-q] -{y n}] [-f] [-v] [-c configure] [-d <i>domain_id</i>] <i>xsb</i> [<i>xsb</i>...]</p> <p>addboard [[-q] -{y n}] [-f] [-v] [-c assign] [-d <i>domain_id</i>] <i>xsb</i> [<i>xsb</i>...]</p> <p>addboard [[-q] -{y n}] [-f] [-v] [-c reserve] [-d <i>domain_id</i>] <i>xsb</i> [<i>xsb</i>...]</p> <p>addboard -h</p>						
DESCRIPTION	<p>The addboard(8) command, based on domain component list (DCL), configures a XSB into the domain configuration or assigns it to the domain configuration.</p> <p>The addboard(8) command is not available on the M3000 server.</p> <p>One of the following configuration methods can be specified:</p> <table> <tr> <td>configure</td><td>Configures an XSB into the specified domain configuration. The incorporated XSB can be accessed from the Oracle Solaris OS.</td></tr> <tr> <td>assign</td><td>Assigns an XSB to the specified domain. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned XSB is configured in the domain by reboot or execution of the addboard(8) command with "-c configure".</td></tr> <tr> <td>reserve</td><td>Reserves incorporation of an XSB into the domain configuration. The action of "reserve" is the same as "assign."</td></tr> </table>	configure	Configures an XSB into the specified domain configuration. The incorporated XSB can be accessed from the Oracle Solaris OS.	assign	Assigns an XSB to the specified domain. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned XSB is configured in the domain by reboot or execution of the addboard(8) command with "-c configure".	reserve	Reserves incorporation of an XSB into the domain configuration. The action of "reserve" is the same as "assign."
configure	Configures an XSB into the specified domain configuration. The incorporated XSB can be accessed from the Oracle Solaris OS.						
assign	Assigns an XSB to the specified domain. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned XSB is configured in the domain by reboot or execution of the addboard(8) command with "-c configure".						
reserve	Reserves incorporation of an XSB into the domain configuration. The action of "reserve" is the same as "assign."						
Privileges	<p>You must have one of the following privileges to run this command:</p> <table> <tr> <td>platadm</td><td>Can run this command for all domains.</td></tr> <tr> <td>domainadm</td><td>Can run this command only for your managed domains.</td></tr> </table> <p>Refer to setprivileges(8) for more information.</p>	platadm	Can run this command for all domains.	domainadm	Can run this command only for your managed domains.		
platadm	Can run this command for all domains.						
domainadm	Can run this command only for your managed domains.						
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-c assign</td><td>Assigns an XSB to the domain configuration. If the -c option is omitted, "-c configure" is used.</td></tr> <tr> <td>-c configure</td><td>Configures an XSB in the domain configuration. If the -c option is omitted, "-c configure" is used.</td></tr> <tr> <td>-c reserve</td><td>Reserves incorporation of an XSB into the domain configuration. If the -c option is omitted, "-c configure" is used.</td></tr> </table>	-c assign	Assigns an XSB to the domain configuration. If the -c option is omitted, "-c configure" is used.	-c configure	Configures an XSB in the domain configuration. If the -c option is omitted, "-c configure" is used.	-c reserve	Reserves incorporation of an XSB into the domain configuration. If the -c option is omitted, "-c configure" is used.
-c assign	Assigns an XSB to the domain configuration. If the -c option is omitted, "-c configure" is used.						
-c configure	Configures an XSB in the domain configuration. If the -c option is omitted, "-c configure" is used.						
-c reserve	Reserves incorporation of an XSB into the domain configuration. If the -c option is omitted, "-c configure" is used.						

	<div><div>-d <i>domain_id</i></div><div>Specifies the ID of the domain in which an XSB is to be configured or to which it is to be assigned. <i>domain_id</i> can be 0–23 depending on the system configuration.</div></div> <div><div>-f</div><div>Forcibly incorporates into a domain an XSB. Caution - If the -f option is used to forcibly add an XSB to a domain, all the added hardware resources may not work normally. For this reason, use of the -f option is not recommended in normal operation. If the -f option must be specified, verify the status of every added XSB and device.</div></div> <div><div>-h</div><div>Displays usage statement. When used with other options or operands, an error occurs.</div></div> <div><div>-n</div><div>Automatically answers "n" (no) to all prompts.</div></div> <div><div>-q</div><div>Suppresses all messages to stdout, including prompts.</div></div> <div><div>-v</div><div>Displays a detailed message. If this option is specified with the -q option, the -v option is ignored.</div></div> <div><div>-y</div><div>Automatically answers "y" (yes) to all prompts.</div></div>
OPERANDS	<div>The following operand is supported:</div> <div><div><div><div><i>xsb</i></div><div>Specifies the XSB number to be configured or assigned. Multiple <i>xsb</i> operands are permitted, separated by spaces. The following <i>xsb</i> form is accepted:</div></div><div><div><div><div><i>x</i>-<i>y</i></div><div>where:</div><div><div><div><i>x</i></div><div>An integer from 00–15.</div></div><div><div><i>y</i></div><div>An integer from 0–3.</div></div></div></div></div></div></div></div>
EXTENDED DESCRIPTION	<div><div><div>■ You can execute the addboard(8) command on a domain that is not running. When the domain is running, the addboard(8) command with “-c configure” will succeed only if the following Oracle Solaris Service Management Facility (SMF) services are in operation:</div><div><div><div>■ Domain SP Communication Protocol (dscp)</div><div>■ Domain Configuration Server (dcs)</div><div>■ Oracle Sun Cryptographic Key Management Daemon (sckmd)</div></div><div>■ When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.</div></div></div></div>

- If "-c configure" is specified when either the domain power has been turned off or the Oracle Solaris OS is not running, an error occurs.
- When "-c configure" is specified, hardware diagnosis is performed on the XSB before it is incorporated into the domain. Therefore, command execution may take time.
- To use the addboard(8) command to configure or assign an XSB, DCL must be set up in advance using the setdcl(8) command.
- If the addboard(8) command is executed under the progress of power-on or power-off processing, the busy status is returned. After that processing in the domain is completed, reexecute the command.
- See the setdcl(8) and showdcl(8) commands for DCL.

EXAMPLES

EXAMPLE 1 Configures XSB#00-0, #01-0, #02-0, and #03-0 into domain ID 0.

```
XSCF> addboard -y -c assign -d 0 00-0 01-0 02-0 03-0
```

EXAMPLE 2 Configures XSB#00-0, #01-0, #02-0, and #03-0 forcibly into domain ID 2.

```
XSCF> addboard -f -d 2 00-0 01-0 02-0 03-0
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

deleteboard(8), moveboard(8), replacefru(8), setdcl(8), setdomainmode(8), setupfru(8), showboards(8), showdcl(8), showdevices(8), showdomainstatus(8), showfru(8), testsb(8)

addboard(8)



NAME	addcodactivation - add a Capacity on Demand (COD) hardware activation key (COD key) to the COD database
SYNOPSIS	addcodactivation <i>key_signature</i> addcodactivation -h
DESCRIPTION	<p>addcodactivation(8) adds the specified COD key to the COD database on the Service Processor.</p> <p>This command is not available on the M3000 server.</p> <p>When the COD key is added, the quantity of headroom is reduced by the quantity provided by the key. The quantity of headroom cannot be lower than 0.</p> <p>Note – Before you run this command, you must obtain a COD key. To obtain a COD key, contact your sales representative. For details on COD keys, refer to the <i>SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide</i>.</p>
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following option is supported:</p> <p>-h Displays usage statement.</p> <p> When used with other options or operands, an error occurs.</p>
OPERANDS	<p>The following operand is supported:</p> <p><i>key_signature</i> Specifies the key to be added to the COD database.</p>
EXAMPLES	<p>EXAMPLE 1 Adding a Key</p> <pre>XSCF> addcodactivation \ 01:84000000:104:0301010100:3:00000000:XXXXXXXXXXXXXXXXXXXX</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	<p><i>SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide</i></p>

addcodactivation(8)



NAME	addcodlicense - add a Capacity on Demand (COD) right-to-use (RTU) license key to the COD license database
SYNOPSIS	addcodlicense <i>license-signature</i> addcodlicense -h
DESCRIPTION	<p>addcodlicense(8) adds the COD RTU specified license key to the COD license database on the Service Processor.</p> <p>The addcodlicense(8) command is not available on the M3000 server.</p> <p>When the license key is added, the quantity of headroom is reduced by the quantity provided by the license key. The quantity of headroom cannot be lower than 0.</p> <p>Note – Before you run this command, you must obtain a COD license key. To obtain a license key, contact your sales representative. For details on COD RTU license keys, refer to the <i>SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide</i> for your server.</p>
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following option is supported:</p> <p>-h Displays usage statement.</p> <p> When used with other options or operands, an error occurs.</p>
OPERANDS	<p>The following operand is supported:</p> <p><i>license-signature</i> Specifies the COD RTU license key to be added to the COD license database.</p>
EXAMPLES	<p>EXAMPLE 1 Adding a COD RTU License Key</p> <pre> XSCF> addcodlicense \ 01:84000000:104:0301010100:3:00000000:XXXXXXXXXXXXXXXXXXXX </pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	<p><i>SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide</i></p>

addcodlicense(8)



NAME	addfru - add a Field Replaceable Unit (FRU)
SYNOPSIS	addfru addfru -h
DESCRIPTION	<p>The addfru(8) command adds an FRU.</p> <p>The addfru(8) command enables the user to make the settings that are required for FRU addition and related to selecting, confirming, and mounting FRUs, interactively using menus.</p> <p>The following FRUs can be added by the addfru(8) command:</p> <ul style="list-style-type: none"> ■ CPU/Memory Board unit (CMU) ■ I/O unit (IOU) ■ Fan unit (FANU) ■ Power supply unit (PSU)
Privileges	<p>You must have fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following option is supported:</p> <p>-h Displays usage statement.</p>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	deletefru (8), replacefru (8), setupfru (8), showfru (8), showhardconf (8), testsb (8), unlockmaintenance (8)

addfru(8)



NAME	adduser - create an XSCF user account							
SYNOPSIS	adduser [-u <i>UID</i>] <i>user</i> adduser -h							
DESCRIPTION	<p>adduser(8) creates a new local XSCF user account. This account is used to configure, operate, manage and administer the XSCF firmware. Initially, this account has no password. It cannot be used for login until either the password is set (using password(8)) or Secure Shell (SSH) public key authentication is set for the user. The new account will be locked but not disabled. The system can support up to 100 local users with an average length of 10 characters for the <i>user</i> operand.</p> <p>If the Service Processor is configured to use Lightweight Directory Access Protocol (LDAP), Active Directory, or LDAP/SSL for user account data, the user name and UID (if specified) must not already be in use locally or in LDAP, Active Directory, or LDAP/SSL.</p> <p>When a user is created, adduser(8) command stores the current password policy values in a file for the user. For more information on setting password policy see, setpasswordpolicy(8).</p>							
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>							
OPTIONS	<p>The following options are supported.</p> <table><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td>-u <i>UID</i></td><td>Creates a new user with the given user identifier (UID). If specified, the UID must be between 100 and 60000, inclusive. If not specified, a UID is automatically assigned with a minimum value of 100.</td></tr></table>		-h	Displays usage statement.		When used with other options or operands, an error occurs.	-u <i>UID</i>	Creates a new user with the given user identifier (UID). If specified, the UID must be between 100 and 60000, inclusive. If not specified, a UID is automatically assigned with a minimum value of 100.
-h	Displays usage statement.							
	When used with other options or operands, an error occurs.							
-u <i>UID</i>	Creates a new user with the given user identifier (UID). If specified, the UID must be between 100 and 60000, inclusive. If not specified, a UID is automatically assigned with a minimum value of 100.							
OPERANDS	<p>The following operand is supported:</p> <table><tr><td><i>user</i></td><td>Specifies a valid user name to be added. The maximum length of the user name is 31 characters. A new local XSCF user account name can be a combination of lowercase letters, numbers, "-", or "_". Do not use uppercase letters. The first character must be a letter. Examples of acceptable names include jsmith, j_smith, and j_smith-0123.</td></tr></table>		<i>user</i>	Specifies a valid user name to be added. The maximum length of the user name is 31 characters. A new local XSCF user account name can be a combination of lowercase letters, numbers, "-", or "_". Do not use uppercase letters. The first character must be a letter. Examples of acceptable names include jsmith, j_smith, and j_smith-0123.				
<i>user</i>	Specifies a valid user name to be added. The maximum length of the user name is 31 characters. A new local XSCF user account name can be a combination of lowercase letters, numbers, "-", or "_". Do not use uppercase letters. The first character must be a letter. Examples of acceptable names include jsmith, j_smith, and j_smith-0123.							

adduser(8)

EXAMPLES

EXAMPLE 1 Creating a New User

XSCF> **adduser -u 359 jsmith**

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

deleteuser(8), disableuser(8), enableuser(8), password(8), setad(8), setldap(8), setldapssl(8), setpasswordpolicy(8), showad(8), showldap(8), showldapssl(8), showpasswordpolicy(8), showuser(8)

NAME	applynetwork - apply XSCF network information to the XSCF										
SYNOPSIS	applynetwork [[-q] - {y n}] [-M] applynetwork -h										
DESCRIPTION	<p>applynetwork(8) command applies XSCF network information that has been set to the XSCF.</p> <p>Setting network information on XSCF is a three-step process:</p> <ol style="list-style-type: none">1. Set the information with the following commands:<ul style="list-style-type: none">■ sethostname(8) - Set XSCF host name and a DNS domain name■ setnameserver(8) - Set a DNS server name and a DNS search path■ setnetwork(8) - Set IP address and netmask of XSCF network interface■ setroute(8) - Set routing information of XSCF network interface2. Execute the applynetwork(8) command to apply the settings to XSCF.3. Execute the rebootxscf(8) command to make the changes to the XSCF permanent. <p>Note – If XSCF is reset without executing the applynetwork(8) command, network information that is set is not applied in XSCF. Also, information that is set is deleted.</p>										
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>										
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-M</td><td>Displays text by page.</td></tr><tr><td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td>-y</td><td>Automatically answers "y" (yes) to all prompts.</td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-M	Displays text by page.	-n	Automatically answers "n" (no) to all prompts.	-q	Suppresses all messages to stdout, including prompts.	-y	Automatically answers "y" (yes) to all prompts.
-h	Displays usage statement. When used with other options or operands, an error occurs.										
-M	Displays text by page.										
-n	Automatically answers "n" (no) to all prompts.										
-q	Suppresses all messages to stdout, including prompts.										
-y	Automatically answers "y" (yes) to all prompts.										
EXTENDED DESCRIPTION	<ul style="list-style-type: none">■ When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.										

- Use the appropriate network commands to specify the following settings, then execute the `applynetwork(8)` command. All these settings must be present and proper or the XSCF network settings will not be applied.
 - XSCF host name (`sethostname(8)`)
 - DNS domain name (`sethostname(8)`)
 - IP address and netmask of XSCF network interface (`setnetwork(8)`)
- On M8000/M9000 servers, use the `sethostname(8)` command to set host names to both `xscf#0` and `xscf#1`.
- On M3000/M4000/M5000 servers, use the `setnetwork(8)` command to set `xscf#0-lan#0` and `xscf#0-lan#1` so that at least one is up. If both are up, they must use different subnets.
- On M8000/M9000 servers, if `xscf#0-lan#0`, `xscf#1-lan#0`, `xscf#0-lan#1`, and `xscf#1-lan#1` are all in down status, an error results.
- On M8000/M9000 servers, if the network interface which is in the up status has the following settings, it results in an error. Use the `setnetwork(8)` command to set up correctly.
 - If the subnet of `xscf#0-lan#0`, `xscf#1-lan#0`, and the takeover IP address `lan#0` are different
 - If the subnet of `xscf#0-lan#1`, `xscf#1-lan#1`, and the takeover IP address `lan#1` are different
 - If the subnet of ISN is different
 - If the subnet of `xscf#0-lan#0`, `xscf#0-lan#1`, and `xscf#0-if` are the same
 - If the subnet of `xscf#1-lan#0`, `xscf#1-lan#1`, and `xscf#1-if` are the same
- In case the total number of the characters of the DNS domain name that you set by using the `sethostname(8)` command and of the search path that you set by using the `setnameserver(8)` command exceeds 256, it results in an error.
- In the `setnameserver(8)` command, if you do not set the DNS server but set the search path alone, an error results.
- On M8000/M9000 servers, do not execute the `applynetwork(8)` command during XSCF failover.

EXAMPLES

EXAMPLE 1 Applies the information that has been set for the XSCF network.

On M3000/M4000/M5000 servers:

```
XSCF> applynetwork
```

The following network settings will be applied:

```
xscf#0 hostname    :hostname-0
DNS domain name    :example.com
nameserver         :10.23.4.3
```

```

interface      :xscf#0-lan#0
status         :up
IP address     :10.24.144.214
netmask        :255.255.255.0
route          :-n 0.0.0.0 -m 0.0.0.0 -g 10.24.144.1

```

```

interface      :xscf#0-lan#1
status         :down
IP address     :
netmask        :
route          :

```

Continue? [y|n] :**y**

Please reset the XSCF by `rebootxscf` to apply the network settings.

Please confirm that the settings have been applied by executing `showhostname`, `shownetwork`, `showroute` and `shownameserver` after rebooting the XSCF.

On M8000/M9000 servers:

XSCF> **applynetwork**

The following network settings will be applied:

```

xscf#0 hostname :hostname-0
xscf#1 hostname :hostname-1
DNS domain name :example.com
nameserver      :10.23.4.3

```

```

interface      :xscf#0-lan#0
status         :up
IP address     :10.24.144.214
netmask        :255.255.255.0
route          : -n 0.0.0.0 -m 0.0.0.0 -g 10.24.144.1

```

```

interface      :xscf#0-lan#1
status         :down
IP address     :
netmask        :
route          :

```

```

interface      :xscf#0-if
status         :down
IP address     :10.24.100.1
netmask        :255.255.255.0

```

```

interface      :lan#0

```

```

status          :down
IP address      :
netmask         :

interface       :xscf#1-lan#0
status          :up
IP address      :10.24.144.215
netmask         :255.255.255.0
route           : -n 0.0.0.0 -m 0.0.0.0 -g 10.24.144.1

interface       :xscf#1-lan#1
status          :down
IP address      :
netmask         :
route           :

interface       :xscf#1-if
status          :down
IP address      :10.24.100.2
netmask         :255.255.255.0

interface       :lan#1
status          :down
IP address      :
netmask         :

```

Continue? [y|n] :**y**

Please reset the XSCF by rebootxscf to apply the network settings.
Please confirm that the settings have been applied by executing
showhostname, shownetwork, showroute and shownameserver after rebooting
the XSCF.

EXAMPLE 2 Applies the information that has been set for the XSCF network, on M3000/
M4000/M5000 servers. Automatically answers "y" to all prompts.

```

XSCF> applynetwork -y
The following network settings will be applied:
xscf#0 hostname :hostname-0
DNS domain name :example.com
nameserver      :10.23.4.3

interface       :xscf#0-lan#0
status          :up
IP address      :10.24.144.214
netmask         :255.255.255.0

```

```
route          :-n 0.0.0.0 -m 0.0.0.0 -g 10.24.144.1

interface      :xscf#0-lan#1
status         :down
IP address     :
netmask        :
route          :
```

Continue? [y|n] :**y**

Please reset the XSCF by rebootxscf to apply the network settings.

Please confirm that the settings have been applied by executing showhostname, shownetwork, showroute and shownameserver after rebooting the XSCF.

EXAMPLE 3 Applies the information that has been set for the XSCF network. Suppresses prompts, and automatically answers "y" to all prompts.

```
XSCF> applynetwork -q -y
```

EXAMPLE 4 Sets the name server and the search path and then applies the XSCF network settings.

```
XSCF> applynetwork
```

The following network settings will be applied:

```
xscf#0 hostname :hostname-0
DNS domain name :example.com
nameserver      :10.23.4.3
nameserver      :10.24.144.3
nameserver      :10.24.131.7
search          :example1.com
search          :example2.com
search          :example3.com
search          :example4.com
search          :example5.com

interface       :xscf#0-lan#0
status          :up
IP address      :10.24.144.214
netmask         :255.255.255.0
route           :-n 0.0.0.0 -m 0.0.0.0 -g 10.24.144.1

interface       :xscf#0-lan#1
status          :down
IP address      :
netmask         :
route           :
```

Continue? [y|n] :**y**

Please reset the XSCF by rebootxscf to apply the network settings.

Please confirm that the settings have been applied by executing showhostname, shownetwork, showroute and shownameserver after rebooting the XSCF.

EXIT STATUS

The following exit values are returned:

0 Successful completion.

>0 An error occurred.

SEE ALSO

rebootxscf(8), **sethostname(8)**, **setnameserver(8)**, **setnetwork(8)**, **setroute(8)**

NAME	cfgdevice - connect the CD-RW/DVD-RW drive unit and the tape drive unit to the port, disconnect it from the port, or display the status of the drive
SYNOPSIS	<pre>cfgdevice [[-q] -{y n}] -c attach -p <i>port_no</i> cfgdevice [[-q] -{y n}] -c detach -p <i>port_no</i> cfgdevice -l [-M] cfgdevice -h</pre>
DESCRIPTION	<p>The <code>cfgdevice(8)</code> connects the CD-RW/DVD-RW drive unit and the tape drive unit to the specified port, disconnects it from the domain, or displays the current status.</p> <p>The <code>cfgdevice(8)</code> command is available only for the M8000/M9000 servers.</p> <p>To connect the CD-RW/DVD-RW drive unit and the tape drive unit, the port number which is a PCI slot number on the I/O unit which installed IOU Onboard Device Card A (IOUA) needs to specify. Executing the <code>cfgdevice(8)</code> command, the CD-RW/DVD-RW drive unit and the tape drive unit is connected to specified port by the built-in switching unit.</p>

	<p>The current status of the drive that is displayed with this command includes the following types of status information:</p> <table><tr><td>port_no</td><td>Port number of the port where the IOUA is installed and that can be connected to the CD-RW/DVD-RW drive unit and the tape drive unit. It is displayed in the <i>"IOU number-PCI slot number"</i> format.</td></tr><tr><td>IOU/SAS-status</td><td><p>Connection status between IOUA and built-in switching unit. It is changed by specifying "attach" or "detach."</p><ul style="list-style-type: none">enable/disable: Setting status of the <code>cfgdevice(8)</code> command enable: Connected with "-c attach." disable: Not connected.up/down: Logical connection between IOUA and built-in switching unit. up: Connected. down: Not connected.</td></tr><tr><td>SAS-status</td><td><p>Connection status between I/O unit and the system.</p><ul style="list-style-type: none">enable/disable: Connection setting between I/O unit and the system. When starting a domain with no I/O unit, the "disable" may be displayed. enable: Yes disable: Noup/down: Logical connection between I/O unit and the system. up: Connected. down: Not connected.</td></tr></table>	port_no	Port number of the port where the IOUA is installed and that can be connected to the CD-RW/DVD-RW drive unit and the tape drive unit. It is displayed in the <i>"IOU number-PCI slot number"</i> format.	IOU/SAS-status	<p>Connection status between IOUA and built-in switching unit. It is changed by specifying "attach" or "detach."</p> <ul style="list-style-type: none">enable/disable: Setting status of the <code>cfgdevice(8)</code> command enable: Connected with "-c attach." disable: Not connected.up/down: Logical connection between IOUA and built-in switching unit. up: Connected. down: Not connected.	SAS-status	<p>Connection status between I/O unit and the system.</p> <ul style="list-style-type: none">enable/disable: Connection setting between I/O unit and the system. When starting a domain with no I/O unit, the "disable" may be displayed. enable: Yes disable: Noup/down: Logical connection between I/O unit and the system. up: Connected. down: Not connected.				
port_no	Port number of the port where the IOUA is installed and that can be connected to the CD-RW/DVD-RW drive unit and the tape drive unit. It is displayed in the <i>"IOU number-PCI slot number"</i> format.										
IOU/SAS-status	<p>Connection status between IOUA and built-in switching unit. It is changed by specifying "attach" or "detach."</p> <ul style="list-style-type: none">enable/disable: Setting status of the <code>cfgdevice(8)</code> command enable: Connected with "-c attach." disable: Not connected.up/down: Logical connection between IOUA and built-in switching unit. up: Connected. down: Not connected.										
SAS-status	<p>Connection status between I/O unit and the system.</p> <ul style="list-style-type: none">enable/disable: Connection setting between I/O unit and the system. When starting a domain with no I/O unit, the "disable" may be displayed. enable: Yes disable: Noup/down: Logical connection between I/O unit and the system. up: Connected. down: Not connected.										
Privileges	<p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>										
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-c attach</td><td>Connects the CD-RW/DVD-RW drive unit and the tape drive unit to the specified port.</td></tr><tr><td>-c detach</td><td>Disconnects the CD-RW/DVD-RW drive unit and the tape drive unit from the specified port.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-l</td><td>Displays the current status of the CD-RW/DVD-RW drive unit and the tape drive unit currently set up.</td></tr><tr><td>-M</td><td>Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.</td></tr></table>	-c attach	Connects the CD-RW/DVD-RW drive unit and the tape drive unit to the specified port.	-c detach	Disconnects the CD-RW/DVD-RW drive unit and the tape drive unit from the specified port.	-h	Displays usage statement. When used with other options or operands, an error occurs.	-l	Displays the current status of the CD-RW/DVD-RW drive unit and the tape drive unit currently set up.	-M	Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.
-c attach	Connects the CD-RW/DVD-RW drive unit and the tape drive unit to the specified port.										
-c detach	Disconnects the CD-RW/DVD-RW drive unit and the tape drive unit from the specified port.										
-h	Displays usage statement. When used with other options or operands, an error occurs.										
-l	Displays the current status of the CD-RW/DVD-RW drive unit and the tape drive unit currently set up.										
-M	Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.										

EXTENDED DESCRIPTION

- n Automatically answers "n" (no) to all prompts.
- p *port_no* Specifies the number of the port, in the specified domain, to which the CD-RW/DVD-RW drive unit and the tape drive unit is to be connected. *port_no* can be specified in the '*IOU number-PCI slot number*' format. The -p option cannot be omitted.
- q Suppresses all messages to stdout, including prompts.
- y Automatically answers "y" (yes) to all prompts.

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.

- When all domains are powered off, "-c attach" reserves attachment and "-c detach" reserves detachment. When the the status of the power is in any state other than off, the setting will be immediately applied after the `cfgdevice(8)` command is executed.

To verify that all domains are powered off, execute the `showlogs power` command and look for the value `System Power Off`.

- The CD-RW/DVD-RW and the tape connection is maintained even if the domain configuration is changed, or a CPU/Memory Board unit (CMU) or I/O unit (IOU) is replaced with a connected CD-RW/DVD-RW drive unit and the tape drive unit.
- The CD-RW/DVD-RW and the tape connection is maintained even if the domain power is turned off or the system is rebooted.
- The CD-RW/DVD-RW drive unit and the tape drive unit is mounted in each of the base and expansion cabinets in the M9000 server that has the expansion cabinet. In such cases, each CD-RW/DVD-RW drive unit and the tape drive unit can be connected only to a domain within the cabinet in which the drive is mounted. Settings for connection must be made for both the base cabinet and expansion cabinet.

XSCF> **cfgdevice -l**

Current connection for DVD/DAT:

Main chassis: port 0-0

Expansion chassis: port 8-0

Expander status

Port No. IOU/SAS-status SAS-status

```
-----
0-0    enable up    enable up
0-2    disable down enable up
0-4    disable down enable up
0-6    disable down enable up
```

```

1-0      disable down  enable up
1-2      disable down  enable up
1-4      disable down  enable up
1-6      disable down  enable up
2-0      disable down  enable up
2-2      disable down  enable up
2-4      disable down  enable up
2-6      disable down  enable up
8-0      enable  up     enable up
8-2      disable down  enable up
8-4      disable down  enable up
8-6      disable down  enable up

```

EXAMPLES

EXAMPLE 1 When the system is being powered off, reserves the connection of the CD-RW/DVD-RW drive unit and the tape drive unit to the port 0-0.

```

XSCF> cfgdevice -c attach -p 0-0
Are you sure you want to attach the device [y|n] :y
Completed.( Reservation )

```

EXAMPLE 2 When the system is being powered on, connects the CD-RW/DVD-RW drive unit and the tape drive unit to port 0-0.

```

XSCF> cfgdevice -c attach -p 0-0
Are you sure you want to attach the device [y|n] :y
Completed.

```

EXAMPLE 3 Disconnects the CD-RW/DVD-RW drive unit and the tape drive unit from the port 0-0.

```

XSCF> cfgdevice -f -c detach -p 0-0
Are you sure you want to detach the device [y|n] :y
Completed.

```

EXAMPLE 4 Displays the status of individual CD-RW/DVD-RW drive unit and the tape drive unit set on the M8000 server and the M9000 server without the expansion cabinet.

```

XSCF> cfgdevice -l
Current connection for DVD/DAT: port 0-0
Expander status
Port No. IOU/SAS-status SAS-status
-----
0-0      enable up      enable up
0-2      disable down   enable up

```

EXAMPLE 5 Displays the status of individual CD-RW/DVD-RW drive unit and the tape drive unit set on the M9000 server with the expansion cabinet.

```
XSCF> cfgdevice -l
Current connection for DVD/DAT: port 0-0
Main chassis:      port 0-0
Expansion chassis: port 8-0
Expander status
Port No. IOU/SAS-status SAS-status
-----
0-0      enable up      enable up
0-2      disable down   enable up
0-4      disable down   enable up
0-6      disable down   enable up
1-0      disable down   enable up
1-2      disable down   enable up
1-4      disable down   enable up
1-6      disable down   enable up
2-0      disable down   enable up
2-2      disable down   enable up
2-4      disable down   enable up
2-6      disable down   enable up
8-0      enable up      enable up
8-2      disable down   enable up
8-4      disable down   enable up
8-6      disable down   enable up
```

EXAMPLE 6 Connects the CD-RW/DVD-RW drive unit and the tape drive unit to port 0-0 when the system is being powered on. Automatically answers "y" to all prompts.

```
XSCF> cfgdevice -y -c attach -p 0-0
Are you sure you want to attach the device [y|n] :y
Completed.
```

EXAMPLE 7 Connects the CD-RW/DVD-RW drive unit and the tape drive unit to port 0-0 when the system is being powered on. Automatically answers "y" to all prompts without displaying messages.

```
XSCF> cfgdevice -q -y -c attach -p 0-0
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.



NAME	clockboard - set or display the clock control unit used at system startup				
SYNOPSIS	<p>clockboard</p> <p>clockboard -s <i>CLKU_B-number</i></p> <p>clockboard -h</p>				
DESCRIPTION	<p>The <code>clockboard(8)</code> command specifies the clock control unit used when the system power is turned on, or it displays the clock control unit that is currently used and the clock control unit used at the next system startup.</p> <p>The <code>clockboard(8)</code> command is available only for the M8000/M9000 servers.</p> <p>The number 0 or 1 is used to specify or display a clock control unit. When the <code>clockboard(8)</code> command is executed with no options, the clock control unit that is currently used and the one used at the next system startup are displayed.</p>				
Privileges	<p>You must have <code>fieldeng</code> privilege to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>				
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> <tr> <td>-s <i>CLKU_B-number</i></td><td>Specifies the clock control unit to be used the next time the system power is turned on. Either 0 or 1 can be specified for <i>CLKU_B-number</i>.</td></tr> </table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-s <i>CLKU_B-number</i>	Specifies the clock control unit to be used the next time the system power is turned on. Either 0 or 1 can be specified for <i>CLKU_B-number</i> .
-h	Displays usage statement. When used with other options or operands, an error occurs.				
-s <i>CLKU_B-number</i>	Specifies the clock control unit to be used the next time the system power is turned on. Either 0 or 1 can be specified for <i>CLKU_B-number</i> .				
EXAMPLES	<p>EXAMPLE 1 Displays the clock control unit that is currently used and the one used at the next system startup.</p> <pre>XSCF> clockboard current CLKU_B number :0 next CLKU_B number :1</pre> <p>EXAMPLE 2 Specifies the clock control unit used at the next system startup.</p> <pre>XSCF> clockboard -s 1</pre>				
EXIT STATUS	<p>The following exit values are returned:</p> <table> <tr> <td>0</td><td>Successful completion.</td></tr> <tr> <td>>0</td><td>An error occurred.</td></tr> </table>	0	Successful completion.	>0	An error occurred.
0	Successful completion.				
>0	An error occurred.				

clockboard(8)



NAME	console - connect to a domain console
SYNOPSIS	console [[-q] -{y n}] -d <i>domain_id</i> [-f -r] [-s <i>escapeChar</i>] console -h
DESCRIPTION	<p>The <code>console(8)</code> command connects the XSCF shell console to the console of the specified domain (domain console).</p> <p>Domain consoles include a writable console and read-only console. Only one writable console and multiple read-only consoles can be connected to one domain. An attempt to set up a connection to another writable console while one writable console is already connected results in an error. Even in this case, however, a user with the <code>platadm</code> or <code>domainadm</code> privilege can forcibly establish a connection to a writable console, in which case the currently connected writable console is disconnected.</p> <p>To exit the domain console and return to the XSCF shell console, press the Enter key and then enter <code>"#"</code> and <code>"."</code> (period).</p> <p>Note – When you return to XSCF shell console without logging out from the domain, the return causes automatically logging out from the domain.</p>
Privileges	<p>You must have one of the following privileges to run this command:</p> <p><code>platadm, platop, fieldeng</code> Can run this command for all domains.</p> <p><code>domainadm, domainmgr, domainop</code> Can run this command only for your accessible domains.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported.</p> <p>-d <i>domain_id</i> Specifies only one ID of the domain to which to connect to a domain console. <i>domain_id</i> can be 0–23 depending on the system configuration.</p> <p>-f Forcibly connects to a writable console. The currently connected writable console is disconnected. Only users who belong to the <code>platadm</code> or <code>domainadm</code> privilege can specify this option.</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-n Automatically answers "n" (no) to all prompts.</p>

EXTENDED
DESCRIPTION

- q

Suppresses all messages to stdout, including prompts.
- r

Sets up a connection to a read-only console.
- s *escapeChar*

Specifies an escape character. The default is "#". The character specified for *escapeChar* must be enclosed in " " (double quotation). The following symbols can be specified for *escapeChar*:

"#", "@", "^", "&", "?", "*", "=", ".", "|"

Specified escape character is available only in the session that executed the console(8) command.
- y

Automatically answers "y" (yes) to all prompts.
- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
- The domain console regards "#" used at the beginning of a line as an escape character. An escape character is specified to instruct the console to perform special processing. Examples of processing that can be specified in combination with "#" are as follows.
- "#" and "?"

Outputs a status message.
- "#" and "."
(period)

Disconnects the console.
- To enter "#" at the beginning of a line, enter "#" twice.
- To display information on the currently connected domain console, use the showconsolepath(8) command.

EXIT STATUS

- The following exit values are returned:

0

Successful completion.
- >0

An error occurred.

SEE ALSO

sendbreak(8), **showconsolepath**(8)

NAME	deleteboard - disconnect an eXtended System Board (XSB) from the domain configuration						
SYNOPSIS	deleteboard [[-q] -{y n}] [-f] [-v] -c disconnect <i>xsb</i> [<i>xsb...</i>] deleteboard [[-q] -{y n}] [-f] [-v] -c unassign <i>xsb</i> [<i>xsb...</i>] deleteboard [[-q] -{y n}] [-f] [-v] -c reserve <i>xsb</i> [<i>xsb...</i>] deleteboard -h						
DESCRIPTION	<p>The deleteboard(8) command disconnects an XSB from the domain configuration in which it has been configured.</p> <p>The deleteboard(8) command is not available on the M3000 server.</p> <p>One of the following disconnection methods can be specified:</p> <table><tr><td>disconnect</td><td>Disconnects the XSB from the domain configuration but keeps it assigned. Because the XSB thus remains assigned to the domain configuration, it can be configured again in the domain by reboot the domain or execution of the addboard(8) command.</td></tr><tr><td>unassign</td><td>Completely disconnects the XSB from the main configuration and puts it in the system board pool. The XSB in the system board pool can be incorporated into or assigned to other domain configurations.</td></tr><tr><td>reserve</td><td>Does not immediately disconnects the XSB from the domain configuration but only reserves detachment. When the domain power is shut down, the reserved XSB is disconnected from the domain configuration and put in the system board pool.</td></tr></table>	disconnect	Disconnects the XSB from the domain configuration but keeps it assigned. Because the XSB thus remains assigned to the domain configuration, it can be configured again in the domain by reboot the domain or execution of the addboard(8) command.	unassign	Completely disconnects the XSB from the main configuration and puts it in the system board pool. The XSB in the system board pool can be incorporated into or assigned to other domain configurations.	reserve	Does not immediately disconnects the XSB from the domain configuration but only reserves detachment. When the domain power is shut down, the reserved XSB is disconnected from the domain configuration and put in the system board pool.
disconnect	Disconnects the XSB from the domain configuration but keeps it assigned. Because the XSB thus remains assigned to the domain configuration, it can be configured again in the domain by reboot the domain or execution of the addboard(8) command.						
unassign	Completely disconnects the XSB from the main configuration and puts it in the system board pool. The XSB in the system board pool can be incorporated into or assigned to other domain configurations.						
reserve	Does not immediately disconnects the XSB from the domain configuration but only reserves detachment. When the domain power is shut down, the reserved XSB is disconnected from the domain configuration and put in the system board pool.						
Privileges	<p>You must have one of the following privileges to run this command:</p> <table><tr><td>platadm</td><td>Can run this command for all domains.</td></tr><tr><td>domainadm</td><td>Can run this command only for your managed domains.</td></tr></table> <p>Refer to setprivileges(8) for more information.</p>	platadm	Can run this command for all domains.	domainadm	Can run this command only for your managed domains.		
platadm	Can run this command for all domains.						
domainadm	Can run this command only for your managed domains.						

OPTIONS

The following options are supported.

- c disconnect Detaches the XSB from the domain configuration and keeps it assigned. If the -c option is omitted, "-c disconnect" is used.
- c reset Reserves disconnect of an XSB. If the -c option is omitted, "-c disconnect" is used.
- c unassign Disconnects the XSB completely from the domain configuration and puts it in the system board pool. If the -c option is omitted, "-c disconnect" is used.
- f Forcibly detaches the specified XSB.
Caution - If the -f option is used to forcibly add a system board to a domain, all the added hardware resources may not work normally. For this reason, use of the -f option is not recommended in normal operation. If the -f option must be specified, verify the status of every added system board and device.
- h Displays usage statement. When used with other options or operands, an error occurs.
- n Automatically answers "n" (no) to all prompts.
- q Suppresses all messages to stdout, including prompts.
- v Displays a detailed message. If this option is specified with the -q option, the -v option is ignored.
- y Automatically answers "y" (yes) to all prompts.

OPERANDS

The following operand is supported:

- xsb* Specifies the XSB number to be disconnected. Multiple *xsb* operands are permitted, separated by spaces. The following *xsb* form is accepted:
- x-y*
- where:
- | | |
|----------|------------------------|
| <i>x</i> | An integer from 00–15. |
| <i>y</i> | An integer from 0–3. |

EXTENDED DESCRIPTION

- You can execute the deleteboard(8) command on a domain that is not running. When the domain is running, the under the deleteboard(8) command with "-c disconnect" or "-c unassign" will succeed only if the following Oracle Solaris Service Management Facility (SMF) services are active on that domain:
 - Domain SP Communication Protocol (dscp)

- Domain Configuration Server (dcs)
- Oracle Sun Cryptographic Key Management Daemon (sckmd)
- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
- If "-c disconnect" is specified when either the domain power has been turned off or the XSB is already disconnected from the domain configuration, no operation is performed. If domain power-on or power-off is in progress, the command results in an error.
- If "-c unassign" is specified when either the domain power has been turned off or the XSB is already disconnected from the domain configuration, the XSB is switched from the assigned state to a system board pool. If the XSB is already in a system board pool, no operation is performed.
- If "-c reserve" is specified when either the domain power has been turned off or the XSB is already disconnected from the domain configuration, the XSB is immediately switched from the assigned state to a system board pool. If the XSB is already in a system board pool, no operation is performed. If domain power-on or power-off is in progress, the command results in an error.
- When the XSB is disconnected, the hardware resource on the XSB is disconnected from the operating system. For this reason, command execution may take time.
- The state in which an XSB has been assigned means that configuring the XSB in the specified domain has been reserved. The reserved XSB is configured when the domain is rebooted or the addboard(8) command is executed. An already assigned XSB cannot be specified for configuring or assignment from other domains.
- An XSB in the system board pool means that the XSB belongs to no domain and is therefore available for configuring or assignment.

EXAMPLES

EXAMPLE 1 Puts the system board XSB#00-0, #01-0, #02-0, and #03-0 in the system board pool

```
XSCF> deleteboard -c unassign 00-0 01-0 02-0 03-0
```

EXAMPLE 2 Reserves disconnection of XSB#00-0, #01-0, #02-0, and #03-0.

```
XSCF> deleteboard -c reserve 00-0 01-0 02-0 03-0
```

EXIT STATUS

The following exit values are returned:

- | | |
|----|------------------------|
| 0 | Successful completion. |
| >0 | An error occurred. |

deleteboard(8)

SEE ALSO

addboard (8), **moveboard** (8), **replacefru** (8), **setdcl** (8), **setupfru** (8),
showboards (8), **showdcl** (8), **showdevices** (8), **showdomainstatus** (8),
showfru (8)

NAME	deletecodactivation - remove a Capacity on Demand (COD) hardware activation key (COD key) from the COD database						
SYNOPSIS	deletecodactivation [-f] <i>key-signature</i> deletecodactivation -h						
DESCRIPTION	<p>The <code>deletecodactivation(8)</code> command removes the specified COD key from the COD database on the Service Processor.</p> <p>This command is not available on the M3000 server.</p> <p>Note – For details on COD keys, refer to the <i>SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide</i>.</p> <p>The system checks the number of COD hardware activation permits (COD permits) against the number of COD CPUs in use. If the permit removal will result in an insufficient number of COD permits with respect to the CPUs in use, the system does not delete the COD key from the COD database. If you still want to delete the COD key, you must reduce the number of COD CPUs in use. Power off the appropriate number of domains or disconnect the appropriate number of the eXtended System Boards (XSBs).</p>						
Privileges	<p>You must have <code>platadm</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>						
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-f</td><td>Forces the specified key to be deleted from the COD database.</td></tr><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr></table>	-f	Forces the specified key to be deleted from the COD database.	-h	Displays usage statement.		When used with other options or operands, an error occurs.
-f	Forces the specified key to be deleted from the COD database.						
-h	Displays usage statement.						
	When used with other options or operands, an error occurs.						
OPERANDS	<p>The following operands are supported:</p> <table><tr><td><i>key-signature</i></td><td>Specifies the key to be deleted from the COD database.</td></tr></table>	<i>key-signature</i>	Specifies the key to be deleted from the COD database.				
<i>key-signature</i>	Specifies the key to be deleted from the COD database.						
EXAMPLES	<p>EXAMPLE 1 Deleting a key</p> <pre>XSCF> deletecodactivation \ 01:84000000:104:0301010100:3:00000000:xxxxxxxxxxxxxxxxxxxxxxxx</pre>						
EXIT STATUS	<p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>>0</td><td>An error occurred.</td></tr></table>	0	Successful completion.	>0	An error occurred.		
0	Successful completion.						
>0	An error occurred.						

deletecodactivation(8)

SEE ALSO | *SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide*

NAME	deletecodlicense - remove a Capacity on Demand (COD) right-to-use (RTU) license key from the COD license database
SYNOPSIS	deletecodlicense [-f] <i>license-signature</i> deletecodlicense -h
DESCRIPTION	<p>The <code>deletecodlicense(8)</code> command removes the specified COD RTU license key from the COD license database on the Service Processor.</p> <p>The <code>deletecodlicense(8)</code> command is not available on the M3000 server.</p> <p>For further information about COD RTU license keys, refer to the <i>SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide</i>.</p> <p>The system checks the number of COD RTU licenses against the number of COD CPUs in use. If the license removal will result in an insufficient number of COD RTU licenses with respect to the CPU in use, the system does not delete the license key from the COD RTU license database. If you still want to delete the COD RTU license key, you must reduce the number of COD CPUs in use. Power off the appropriate number of domains or disconnect the appropriate number of the eXtended System Boards (XSBs).</p>
Privileges	<p>You must have <code>platadm</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported:</p> <ul style="list-style-type: none"> -f Forces the specified COD RTU license key to be deleted from the COD license database. -h Displays usage statement. <p>When used with other options or operands, an error occurs.</p>
OPERANDS	<p>The following operand is supported:</p> <p><i>license-signature</i> Specifies the COD RTU license key to be deleted from the COD license database.</p>
EXAMPLES	<p>EXAMPLE 1 Deleting a COD RTU license key</p> <pre>XSCF> deletecodlicense \ 01:84000000:104:0301010100:3:00000000:xxxxxxxxxxxxxxxxxxxxxxxx</pre>

deletecodlicense(8)

EXIT STATUS	<p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>>0</td><td>An error occurred.</td></tr></table>	0	Successful completion.	>0	An error occurred.
0	Successful completion.				
>0	An error occurred.				
SEE ALSO	<p><i>SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide</i></p>				

NAME	deletefru - delete a Field Replaceable Unit (FRU)
SYNOPSIS	deletefru deletefru -h
DESCRIPTION	<p>The deletefru(8) command deletes an FRU.</p> <p>The deletefru(8) command is available only for the M8000/M9000 servers.</p> <p>The deletefru(8) command allows the user to make the settings that are required for FRU deletion and related to selecting, confirming, and removing FRUs interactively using menus.</p> <p>The following FRUs can be deleted:</p> <ul style="list-style-type: none">■ CPU/Memory Board unit (CMU)■ I/O unit (IOU)
Privileges	<p>You must have fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following option is supported:</p> <p>-h Displays usage statement.</p>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	addfru (8), deleteboard (8), replacefru (8), setupfru (8), showdomainstatus (8), showfru (8), showhardconf (8), unlockmaintenance (8)

deletefru(8)



NAME	deleteuser - delete an XSCF user account				
SYNOPSIS	deleteuser <i>user</i> deleteuser -h				
DESCRIPTION	<p>deleteuser(8) deletes a local XSCF user account. All local account data associated with the user account is deleted including password and Secure Shell (SSH) keys.</p> <p>The local user's currently running XSCF shell and browser sessions are terminated at once. The user's account is removed from the system and they cannot log back in. You cannot delete your own account.</p>				
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>				
OPTIONS	<p>The following option is supported:</p> <table><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr></table>	-h	Displays usage statement.		When used with other options or operands, an error occurs.
-h	Displays usage statement.				
	When used with other options or operands, an error occurs.				
OPERANDS	<p>The following operands are supported:</p> <table><tr><td><i>user</i></td><td>Specifies a valid user name. The name of the user account to be deleted.</td></tr></table>	<i>user</i>	Specifies a valid user name. The name of the user account to be deleted.		
<i>user</i>	Specifies a valid user name. The name of the user account to be deleted.				
EXAMPLES	<p>EXAMPLE 1 Deleting a User</p> <pre>XSCF> deleteuser jsmith</pre>				
EXIT STATUS	<p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>>0</td><td>An error occurred.</td></tr></table>	0	Successful completion.	>0	An error occurred.
0	Successful completion.				
>0	An error occurred.				
SEE ALSO	adduser(8) , disableuser(8) , enableuser(8)				

deleteuser(8)



NAME	disableuser - disable an XSCF user account				
SYNOPSIS	disableuser <i>user</i> disableuser -h				
DESCRIPTION	<p>disableuser(8) disables a local XSCF user account for subsequent logins. Current sessions are not affected.</p> <p>When an account is disabled, it cannot be used for login. This applies to console (serial) and telnet connections, as well as the Secure Shell (SSH). XSCF Web login is also disabled. All local XSCF account data associated with the user remains on the system. This includes password and SSH keys. You can reenable a disabled account using enableuser(8).</p>				
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>				
OPTIONS	<p>The following option is supported:</p> <table><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr></table>	-h	Displays usage statement.		When used with other options or operands, an error occurs.
-h	Displays usage statement.				
	When used with other options or operands, an error occurs.				
OPERANDS	<p>The following operands are supported:</p> <table><tr><td><i>user</i></td><td>Specifies a valid user name of the user account to be disabled.</td></tr></table>	<i>user</i>	Specifies a valid user name of the user account to be disabled.		
<i>user</i>	Specifies a valid user name of the user account to be disabled.				
EXAMPLES	<p>EXAMPLE 1 Disabling a User Account</p> <pre>XSCF> disableuser jsmith</pre>				
EXIT STATUS	<p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>>0</td><td>An error occurred.</td></tr></table>	0	Successful completion.	>0	An error occurred.
0	Successful completion.				
>0	An error occurred.				
SEE ALSO	adduser (8), deleteuser (8), enableuser (8), showuser (8)				

disableuser(8)



NAME	dumpconfig - save system configuration information to a file
SYNOPSIS	<p>dumpconfig [-v] [-V] [[-q] -{y n}] [-e [-P <i>password</i>]] [-c <i>comment</i>] [-u <i>user</i>] [-p <i>proxy</i>] [-t <i>proxty_type</i>] <i>url</i></p> <p>dumpconfig -h</p>
DESCRIPTION	The dumpconfig(8) command saves system configuration information, copying it from the XSCF to a file specified by the user. The information can later be downloaded from that file back to the XSCF using restoreconfig(8).
Privileges	<p>You must have platadm, platop, or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-c <i>comment</i> Accepts a user-provided comment in the file to distinguish between different backup copies. The comment is not read by the software. This comment must be 132 chars or less in length.</p> <p>Special characters are not allowed in the comment. Allowed characters are [0-9 a-z A-Z] and " ". A space is also valid but if spaces are used the entire comment must be enclosed in double quotes.</p> <p>Some examples:</p> <p>-c "This is a valid comment"</p> <p>-c This is an invalid comment</p> <p>The above example is invalid because spaces are included without quotations.</p> <p>-c "This! is @invalid"</p> <p>The above example is invalid because it includes special characters, which are not allowed.</p> <p>-e Encrypt the file. "-P password" option can be used to specify the password. If a password is not specified the key will be prompted. Once encrypted the configuration file cannot be decrypted without the key. If the key is lost, there is no possibility of recovering the configuration data.</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-n Automatically answers "n" (no) to all prompts.</p>

<code>-P password</code>	With <code>-e</code> option, password can be provided on command line. The command will prompt for the password if a password is not provided on command line.
<code>-p proxy</code>	Specifies the proxy server to be used for transfers. The default transfer type is <code>http</code> , unless modified using the <code>-t proxy_type</code> option. The value for proxy must be in the format <code>servername:port</code> .
<code>-q</code>	Suppresses all messages to stdout, including prompts.
<code>-t proxy_type</code>	Used with the <code>-p</code> option to specify the type of proxy. Possible values for <code>proxy_type</code> are: <code>http</code> , <code>socks4</code> , and <code>socks5</code> . The default value is <code>http</code> .
<code>-u user</code>	Specifies the user name when logging in to a remote ftp or http server that requires authentication. You will be prompted for a password.
<code>-v</code>	Displays verbose output. This may be helpful when diagnosing server problems.
<code>-V</code>	Displays details of network activity. This may be helpful when diagnosing network or server problems.
<code>-y</code>	Automatically answers "y" (yes) to all prompts.

OPERANDS

The following operands are supported:

<i>url</i>	Specifies the URL where the configuration will be dumped. Supported formats for this value include the following: <code>http://server[:port]/path/file</code> <code>https://server[:port]/path/file</code> <code>ftp://server[:port]/path/file</code> <code>file:///media/usb_msd/path/file</code>
------------	--

EXAMPLES**EXAMPLE 1** Dumping the Configuration using FTP

```
XSCF> dumpconfig -V -p 129.145.155.156:8080 -u minilla \
ftp://10.7.79.18/sollgell/proxytest-ftp.cfg
transfer from '/tmp/dumpconfig.EvYlYf' to 'ftp://10.7.79.18/sollgell/
proxytest-ftp.cfg'
Password:
* About to connect() to 129.145.155.166 port 8080
* Trying 129.145.155.166... * connected
* Connected to 129.145.155.166 (129.145.155.166) port 8080
* Proxy auth using (nil) with user ''
```



```

* Server auth using Basic with user 'minilla'
> PUT ftp://10.7.79.18/iktest/proxytest-ftp.cfg HTTP/1.1
Authorization: Basic bHdhbmc6bHdhbmc=
User-Agent: dumpconfig
Host: 10.7.79.18:21
Pragma: no-cache
Accept: */*
Content-Length: 24720
Expect: 100-continue
< HTTP/1.1 100 Continue
< HTTP/1.1 200 OK
< Server: Sun-Java-System-Web-Proxy-Server/4.0
< Date: Mon, 04 Aug 2008 16:46:11 GMT
< Transfer-encoding: chunked
* Connection #0 to host 129.145.155.166 left intact
* Closing connection #0
operation completed
XSCF>

```

EXAMPLE 2 Dumping the Configuration Using http

```

XSCF> dumpconfig -v -p 129.145.155.166:8080 \
http://10.7.79.18/sollgell/proxytest.cfg
reading database ... .....*done
creating temporary file ... done
starting file transfer ...done
removing temporary file ... done
operation completed
XSCF>

```

EXAMPLE 3 Dumping the Configuration Using Https

```

XSCF> dumpconfig -v -p 129.145.155.166:8080 \
http://10.7.79.18/sollgell/proxytest-https.cfg
transfer from '/tmp/dumpconfig.ZMCI3d' to 'http://10.7.79.18/iktest/
proxytest-https.cfg'
* About to connect() to 129.145.155.166 port 8080
* Trying 129.145.155.166... * connected
* Connected to 129.145.155.166 (129.145.155.166) port 8080
> > PUT http://10.7.79.18/iktest/proxytest-https.cfg HTTP/1.1
User-Agent: dumpconfig
Host: 10.7.79.18
Pragma: no-cache
Accept: */*
Content-Length: 24720
Expect: 100-continue

```

```

< HTTP/1.1 100 Continue
< HTTP/1.1 204 No Content
< Content-type: text/html
< Date: Mon, 04 Aug 2008 16:42:46 GMT
< Server: Apache/1.3.36 (Unix) mod_perl/1.29 mod_ssl/2.8.27 OpenSSL/
0.9.7d
< Via: 1.1 proxy-proxy
< Proxy-agent: Sun-Java-System-Web-Proxy-Server/4.0
* Connection #0 to host 129.145.155.166 left intact
* Closing connection #0
operation completed
XSCF>

```

EXAMPLE 4 Dumping the Configuration Using USB

```

XSCF> dumpconfig -v -v file:///media/usb_msd/proxytest.cfg
Making sure mount point is clear
Trying to mount USB device /dev/sda1 as /media/usb_msd
Mounted USB device
file '/media/usb_msd/proxytest.cfg' already exists
Do you want to overwrite this file? [y|n]: y
removing file 'file:///media/usb_msd/proxytest.cfg' ... done
reading database ... .....*done
creating temporary file ... done
starting file transfer ...transfer from '/tmp/dumpconfig.HE1RZa' to
'file:///media/usb_msd/san-ff1-54.cfg'
done
removing temporary file ... done
operation completed
Unmounted USB device
XSCF>

```

EXAMPLE 5 Encrypting and Password Protecting the Configuration

```

XSCF> dumpconfig -v -e -P kamacuras -p 129.145.155.166:8080 \
http://10.7.79.18/sollgell/proxytest.cfg
reading database ... .....*done
creating temporary file ... done
starting file transfer ...done
removing temporary file ... done
operation completed
XSCF>

```

EXIT STATUS The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO **restoreconfig (8)**

dumpconfig(8)

NAME	enableuser - enable an XSCF user account
SYNOPSIS	enableuser <i>user</i> enableuser -h
DESCRIPTION	enableuser(8) enables a local XSCF user account. An enabled account can be used for login at the console, using Secure Shell (SSH). Using this command, you can reenable accounts disabled by disableuser.
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following option is supported.</p> <p>-h Displays usage statement.</p> <p> When used with other options or operands, an error occurs.</p>
OPERANDS	<p>The following operands are supported:</p> <p><i>user</i> Specifies the valid user name of the account to be enabled.</p>
EXAMPLES	<p>EXAMPLE 1 Enable a User Account</p> <p>XSCF> enableuser jsmith</p>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	adduser(8) , deleteuser(8) , disableuser(8) , showuser(8)

enableuser(8)



NAME	flashupdate - update the firmware												
SYNOPSIS	<p>flashupdate -c check -m xcp -s <i>version</i></p> <p>flashupdate [[-q] -{y n}] -c update -m xcp -s <i>version</i></p> <p>flashupdate -c sync</p> <p>flashupdate -h</p>												
DESCRIPTION	<p>The flashupdate(8) command updates the firmware.</p> <p>The entire firmware shown below is updated. Whether update can be performed can be checked beforehand.</p> <ul style="list-style-type: none">■ Update of the entire firmware (XSCF, OpenBoot PROM including Power-On Self-Test (POST)) (xcp)												
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>												
OPTIONS	<p>The following options are supported:.</p> <table><tr><td>-c check</td><td>Checks whether the specified firmware can be updated.</td></tr><tr><td>-c update</td><td>Updates the specified firmware. In the M8000/M9000 servers, updates the firmware of both XSCF units.</td></tr><tr><td>-c sync</td><td>Synchronizes the firmware versions of the XSCF units in the M8000/M9000 servers. This option is used when replacing an XSCF unit.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-m xcp</td><td>Specifies the entire firmware as a target.</td></tr><tr><td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr></table>	-c check	Checks whether the specified firmware can be updated.	-c update	Updates the specified firmware. In the M8000/M9000 servers, updates the firmware of both XSCF units.	-c sync	Synchronizes the firmware versions of the XSCF units in the M8000/M9000 servers. This option is used when replacing an XSCF unit.	-h	Displays usage statement. When used with other options or operands, an error occurs.	-m xcp	Specifies the entire firmware as a target.	-n	Automatically answers "n" (no) to all prompts.
-c check	Checks whether the specified firmware can be updated.												
-c update	Updates the specified firmware. In the M8000/M9000 servers, updates the firmware of both XSCF units.												
-c sync	Synchronizes the firmware versions of the XSCF units in the M8000/M9000 servers. This option is used when replacing an XSCF unit.												
-h	Displays usage statement. When used with other options or operands, an error occurs.												
-m xcp	Specifies the entire firmware as a target.												
-n	Automatically answers "n" (no) to all prompts.												

- q Suppresses all messages to stdout, including prompts.
- s *version* Specifies an XCP comprehensive firmware version. For *version*, specify a major version, minor version and micro version continuously.

The XCP version number appears as *xyyz* by four digits, where:

<i>x</i>	Major firmware release number
<i>yy</i>	Minor release number
<i>z</i>	Micro release number
- y Automatically answers "y" (yes) to all prompts.

EXTENDED DESCRIPTION

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "**y**" to execute the command or "**n**" to cancel the command.
- When the firmware is updated, the XSCF unit is reset. Therefore, LAN connection to the XSCF is canceled if already established.
- When there's a faulty Field Replaceable Unit (FRU), can't update the firmware. Resolve the FRU fault then update.

EXAMPLES

EXAMPLE 1 Check whether the entire firmware can be updated to version 1082.

```
XSCF> flashupdate -c check -m xcp -s 1082
```

EXAMPLE 2 Updates the entire firmware to version from 1080 to 1082.

```
XSCF> flashupdate -c update -m xcp -s 1082
```

The XSCF will be reset. Continue? [y|n] :**y**

XCP update is started (XCP version=1082:last version=1080)

OpenBoot PROM update is started (OpenBoot PROM version=02090000)

OpenBoot PROM update has been completed (OpenBoot PROM version=02090000)

XSCF update is started (XSCFU=0,bank=1,XCP version=1082:last version=1080)

XSCF download is started (XSCFU=0,bank=1,XCP version=1082:last version=1080, Firmware Element ID=00:version=01080001:last version=01080000)

XSCF download has been completed (XSCFU=0,bank=1,XCP version=1082:last version=1080, Firmware Element ID=00:version=01080001:last version=01080000)

:

:

XSCF download is started (XSCFU=0,bank=1,XCP version=1082:last version=1080, Firmware Element ID=07:version=01080004:last version=01080000)


```
XSCF download has been completed (XSCFU=0,bank=1,XCP version=1082:last
version=1080, Firmware Element ID=07:version=01080004:last
version=01080000)
XSCF update has been completed (XSCFU=0,bank=1,XCP version=1082:last
version=1080)
XCP update is started (XCP version=1082:last version=1080)
OpenBoot PROM update is started (OpenBoot PROM version=02090000)
OpenBoot PROM update has been completed (OpenBoot PROM version=02090000)
XSCF update is started (XSCFU=0,bank=0,XCP version=1082:last
version=1080)
XSCF download is started (XSCFU=0,bank=0,XCP version=1082:last
version=1080, Firmware Element ID=00:version=01080001:last
version=01080000)
XSCF download has been completed (XSCFU=0,bank=0,XCP version=1082:last
version=1080, Firmware Element ID=00:version=01080001:last
version=01080000)
:
:
XSCF download is started (XSCFU=0,bank=0,XCP version=1082:last
version=1080, Firmware Element ID=07:version=01080004:last
version=01080000)
XSCF download has been completed (XSCFU=0,bank=0,XCP version=1082:last
version=1080, Firmware Element ID=07:version=01080004:last
version=01080000)
XSCF update has been completed (XSCFU=0,bank=0,XCP version=1082:last
version=1080)
XSCF is rebooting to update the reserve bank
```

EXAMPLE 3 Synchronizes the firmware version of the replaced XSCF units in the M8000/M9000 servers.

```
XSCF> flashupdate -c sync
```

EXIT STATUS The following exit values are returned:

- 0 Successful completion
- >0 An error occurred.

SEE ALSO `version (8)`

flashupdate(8)

NAME	fmadm - fault management configuration tool						
SYNOPSIS	fmadm [-q] config fmadm -h						
DESCRIPTION	<p>fmadm (8) can be used to view system configuration parameters related to fault management.</p> <p>fmadm can be used to:</p> <ul style="list-style-type: none"> ■ View the set of diagnosis engines and agents that are currently participating in fault management ■ View the list of system components that have been diagnosed as faulty <p>The Fault Manager attempts to automate as many activities as possible, so use of fmadm is typically not required. When the Fault Manager needs help from a human administrator or service representative, it produces a message indicating its needs. It also refers you to a URL containing the relevant knowledge article. The web site might ask you to use fmadm or one of the other fault management utilities to gather more information or perform additional tasks. The documentation for fmdump(8) describes more about tools to observe fault management activities.</p>						
Privileges	<p>You must have platop, platadm, or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>						
OPTIONS	<p>The following options are supported.</p> <table> <tr> <td>-h</td><td>Displays usage statement.</td></tr> <tr> <td></td><td>When used with other options or operands, an error occurs.</td></tr> <tr> <td>-q</td><td>Sets quiet mode. fmadm does not produce messages indicating the result of successful operations to standard output.</td></tr> </table>	-h	Displays usage statement.		When used with other options or operands, an error occurs.	-q	Sets quiet mode. fmadm does not produce messages indicating the result of successful operations to standard output.
-h	Displays usage statement.						
	When used with other options or operands, an error occurs.						
-q	Sets quiet mode. fmadm does not produce messages indicating the result of successful operations to standard output.						
OPERANDS	<p>The following operands are supported:</p> <table> <tr> <td>config</td><td>Displays the configuration of the Fault Manager itself, including the module name, version, and description of each component module. Fault Manager modules provide services such as automated diagnosis, self-healing, and messaging for hardware and software present on the system.</td></tr> </table>	config	Displays the configuration of the Fault Manager itself, including the module name, version, and description of each component module. Fault Manager modules provide services such as automated diagnosis, self-healing, and messaging for hardware and software present on the system.				
config	Displays the configuration of the Fault Manager itself, including the module name, version, and description of each component module. Fault Manager modules provide services such as automated diagnosis, self-healing, and messaging for hardware and software present on the system.						

EXAMPLES

EXAMPLE 1 Displaying the Fault Manager Configuration

```
XSCF> fmadm config
MODULE             VERSION STATUS  DESCRIPTION
case-close         1.0   active  Case-Close Agent
fmd-self-diagnosis 1.0   active  Fault Manager Self-Diagnosis
sysevent-transport 1.0   active  SysEvent Transport Agent
syslog-msgs        1.0   active  Syslog Messaging Agent
```

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

fmdump(8), **fmstat**(8)

NAME	fmdump - view fault management logs				
SYNOPSIS	<p>fmdump</p> <p>fmdump [-e] [-f] [-M] [-v] [-V] [-c <i>class</i>] [-t <i>time</i>] [-T <i>time</i>] [-u <i>uuid</i>]</p> <p>fmdump -m [-M] [-t <i>time</i>] [-T <i>time</i>]</p> <p>fmdump -h</p>				
DESCRIPTION	<p>The fmdump utility displays the contents of any of the logs associated with the Fault Manager (fault manager daemon). The Fault Manager runs in the background on each server. It records, in the error log, faults detected by the XSCF, and initiates proactive self-healing activities, such as disabling faulty components.</p> <p>The Fault Manager maintains two sets of logs for use by system administrators and service personnel:</p> <table><tr><td>Error log</td><td>Records error telemetry, the symptoms of problems detected by the system</td></tr><tr><td>Fault log</td><td>Records fault diagnosis information; the problems believed to explain these symptoms. By default, fmdump displays the contents of the fault log, which records the result of each diagnosis made by the fault manager or one of its component modules.</td></tr></table> <p>Each problem recorded in the fault log is identified by:</p> <ul style="list-style-type: none">■ The time of its diagnosis■ A Universal Unique Identifier (UUID) that can be used to uniquely identify this particular problem across any set of systems■ A message identifier (MSG-ID) that can be used to access a corresponding knowledge article located at the specified website. <p>If a problem requires action by a system administrator or service personnel or affects system behavior, the Fault Manager also issues a human-readable message.</p> <p>This message provides a summary of the problem and a reference to the knowledge article on the specified website.</p> <p>You can use the -v and -V options to expand the display from a single-line summary to increased levels of detail for each event recorded in the log. You can also use the -M option to display only one screen at a time. The -c, -t, -T, and -u options can be used to filter the output by selecting only those events that match the specified <i>class</i>, range of times, or <i>uuid</i>. If more than one filter option is present on the command line, the options combine to display only those events that are selected by the logical AND of the options. If more than one instance of the same</p>	Error log	Records error telemetry, the symptoms of problems detected by the system	Fault log	Records fault diagnosis information; the problems believed to explain these symptoms. By default, fmdump displays the contents of the fault log, which records the result of each diagnosis made by the fault manager or one of its component modules.
Error log	Records error telemetry, the symptoms of problems detected by the system				
Fault log	Records fault diagnosis information; the problems believed to explain these symptoms. By default, fmdump displays the contents of the fault log, which records the result of each diagnosis made by the fault manager or one of its component modules.				

	filter option is present on the command-line, the like options combine to display any events selected by the logical OR of the options.
	You can use the <code>-m</code> option to display the Fault Manager syslog contents.
Privileges	<p>You must have <code>platop</code>, <code>platadm</code>, or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported.</p> <ul style="list-style-type: none"> <code>-c class</code> Selects events that match the specified class. The class argument can use the global pattern matching syntax, which is similar to global pattern matching for files. For example <code>xyz.*</code> would match <code>xyz.sxc</code> and <code>xyz.pdf</code>. The class represents a hierarchical classification string indicating the type of telemetry event. <code>-e</code> Displays events from the fault management error log instead of the fault log. <ul style="list-style-type: none"> The error log contains private telemetry information used by XSCF's automated diagnosis software. This information is recorded to facilitate post-mortem analysis of problems and event replay, and should not be parsed or relied upon for the development of scripts and other tools. <code>-f</code> Displays only lines that have been appended to the dump file since the command was executed. Output continues until interrupted by <code>Ctrl-C</code>. <code>-h</code> Displays usage statement. <ul style="list-style-type: none"> When used with other options or operands, an error occurs. <code>-m</code> Displays the Fault Manager syslog message contents. <code>-M</code> Displays text by page. This option provides a function that is the same as that of the <code>more</code> command. <code>-t time</code> Selects events that occurred at or after the specified time. The time can be specified using the forms in the Time Formats following this section. Used with <code>-T</code> you can specify a range. <code>-T time</code> Selects events that occurred at or before the specified time. <i>time</i> can be specified using any of the time formats described for the <code>-t</code> option. Used with <code>-t</code> you can specify a range.

- u *uuid* Selects fault diagnosis events that exactly match the specified *uuid*. Each diagnosis is associated with a UUID for identification purposes. The -u option can be combined with other options such as -v to show all of the details associated with a particular diagnosis.

If the -e option and -u option are specified at the same time, fmdump displays the relevant error events.
- v Displays verbose event detail. The event display is enlarged to show additional common members of the selected events.
- V Displays very verbose event detail. The event display is enlarged to show every member of the name-value pair list associated with each event. In addition, for fault logs, the event display includes a list of cross-references to the corresponding errors that were associated with the diagnosis.

The following are the Time Formats:

Time Format	Description
<i>mm/dd/yy hh:mm:ss</i>	Month, day, year, hour in 24-hour format, minute, and second. Any amount of whitespace can separate the date and time. The argument should be quoted so that the shell interprets the two strings as a single argument.
<i>mm/dd/yy hh:mm</i>	Month, day, year, hour in 24-hour format, and minute. Any amount of whitespace can separate the date and time. The argument should be quoted so that the shell interprets the two strings as a single argument.
<i>mm/dd/yy</i>	12:00:00AM on the specified month, day, and year
<i>ddMonyy hh:mm:ss</i>	Day, month name, year, hour in 24-hour format, minute, and second. Any amount of whitespace can separate the date and time. The argument should be quoted so that the shell interprets the two strings as a single argument.
<i>Mon dd hh:mm:ss</i>	Month, day, hour in 24-hour format, minute, and second of the current year. Any amount of whitespace can separate the date and time. The argument should be quoted so that the shell interprets the two strings as a single argument.

Time Format	Description
<i>yyyy-mm-dd</i> [<i>T hh:mm[:ss]</i>]	Year, month, day, and optional hour in 24-hour format, minute, and second, where T is an integer value specified in base 10. The second, or hour, minute, and second, can be optionally omitted.
<i>ddMonyy</i>	12:00:00AM on the specified day, month name, and year.
<i>hh:mm:ss</i>	Hour in 24-hour format, minute, and second of the current day.
<i>hh:mm</i>	Hour in 24-hour format and minute of the current day.
<i>Tns</i> <i>Tnsec</i>	T nanoseconds ago where T is an integer value specified in base 10.
<i>Tus</i> <i>Tusec</i>	T microseconds ago where T is an integer value specified in base 10
<i>Tms</i> <i>Tmsec</i>	T milliseconds ago where T is an integer value specified in base 10.
<i>Ts</i> <i>Tsec</i>	T seconds ago where T is an integer value specified in base 10.
<i>Tm</i> <i>Tmin</i>	T minutes ago where T is an integer value specified in base 10.
<i>Th</i> <i>Thour</i>	T hours ago where T is an integer value specified in base 10.
<i>Td</i> <i>Tday</i>	T days ago where T is an integer value specified in base 10.

You can append a decimal fraction of the form *.n* to any *-t* option argument to indicate a fractional number of seconds beyond the specified time.

EXAMPLES

EXAMPLE 1 Default fmdump Display

```
XSCF> fmdump
TIME                               UUID                               MSG-ID
Aug 12 16:12:13.2811 7868c1cc-23d4-c575-8659-85cdbe61842e FMD-8000-77
Aug 12 16:12:13.2985 7868c1cc-23d4-c575-8659-85cdbe61842e FMD-8000-77
Sep 01 16:06:57.5839 3ceca439-b0b2-4db1-9123-c8ace3f2b371 FMD-8000-77
Sep 01 16:06:57.6278 3ceca439-b0b2-4db1-9123-c8ace3f2b371 FMD-8000-77
Sep 06 09:37:05.0983 6485b42b-6638-4c5d-b652-bec485290788 LINUX-8000-1N
Sep 06 09:38:10.8584 77435994-5b99-4db8-bdcd-985c7d3ae3e4 LINUX-8000-1N
Sep 06 09:57:44.6502 0087d58c-e5b9-415d-91bc-adf7c41dd316 LINUX-8000-1N
```



```

Sep 06 12:40:59.2801 97de2cef-8ea1-407a-8a53-c7a67e61987a LINUX-8000-1N
Sep 06 12:41:10.1076 fa7304f9-c9e8-4cd1-9ca5-e35f57d53b2c LINUX-8000-1N
Sep 06 13:01:49.1462 ce550611-4308-4336-8a9a-19676f828515 LINUX-8000-1N
Sep 06 15:42:56.6132 0f4b429f-c048-47cd-9d9f-a2f7b6d4c957 LINUX-8000-1N
Sep 06 16:07:14.4652 7d5fb282-e01b-476a-b7e1-1a0f8de80758 LINUX-8000-1N
Sep 06 16:08:16.3755 41379237-9750-4fd6-bce3-b5131d864d34 LINUX-8000-1N
Sep 29 14:49:27.8452 0455ceaa-e226-424a-9b34-27603ca603f1 FMD-8000-58
Sep 29 15:02:00.3039 fb550ebc-80e9-41c8-8afc-ac680b9eb613 FMD-8000-58
Sep 29 15:09:25.4335 8cec9a83-e2a3-4dc3-a7cd-de01caef5c63 FMD-8000-4M
Sep 29 15:10:09.6151 5f88d7d5-a107-4435-99c9-7c59479d22ed FMD-8000-58

```

EXAMPLE 2 Display in Verbose Mode

```
XSCF> fmdump -v
```

```

TIME                                UUID                                MSG-ID
Nov 30 20:44:55.1283 9f773e33-e46f-466c-be86-fd3fcc449935 FMD-8000-0W
100%  defect.sunos.fmd.nosub
:

```

EXAMPLE 3 Display Very Verbose Event Detail for the Last UUID

```
XSCF> fmdump -e -V -u 5f88d7d5-a107-4435-99c9-7c59479d22ed
```

```

TIME                                CLASS
Sep 29 2005 15:10:09.565220864 ereport.io.iox.cp.seeprom0.nresp
nvlist version: 0
    detector = (embedded nvlist)
    nvlist version: 0
        scheme = hc
        version = 0
        hc-root = /
        hc-list_sz = 0x1
        hc-list = (array of embedded nvlists)
        (start hc-list[0])
        nvlist version: 0
            scheme = hc
            hc-name = iox
            hc-id = 0
        (end hc-list[0])
    (end detector)
IOXserial_no = 123456
class = ereport.io.iox.cp.seeprom0.nresp
ena = 0x921b650000000001

```

EXAMPLE 4 Displaying the Full Fault Report for the Specified UUID

```

XSCF> fmdump -v -u 5f88d7d5-a107-4435-99c9-7c59479d22ed
TIME                               UUID                               MSG-ID
Sep 29 15:10:09.6151 5f88d7d5-a107-4435-99c9-7c59479d22ed FMD-8000-58
TIME                               CLASS                               ENA
Sep 29 15:10:09.5652 ereport.io.iox.cp.seeprom0.nresp
0x921b650000000001
nvlist version: 0
    version = 0x0
    class = list.suspect
    uuid = 5f88d7d5-a107-4435-99c9-7c59479d22ed
    code = FMD-8000-58
    diag-time = 1128021009 615016
    de = (embedded nvlist)
    nvlist version: 0
        version = 0x0
        scheme = fmd
        authority = (embedded nvlist)
        nvlist version: 0
            version = 0x0
            product-id = SUNW,SPARC-Enterprise
            chassis-id = BF0000001V
            server-id = localhost
        (end authority)
        mod-name = sde
        mod-version = 1.13
    (end de)
    fault-list-sz = 0x1
    fault-list = (array of embedded nvlists)
    (start fault-list[0])
    nvlist version: 0
        version = 0x0
        class = fault.io.iox.cp.seeprom
        certainty = 0x64
        fru = (embedded nvlist)
        nvlist version: 0
            scheme = hc
            version = 0x0
            hc-root =
            hc-list-sz = 0x1
            hc-list = (array of embedded nvlists)
            (start hc-list[0])
            nvlist version: 0
                hc-name = iox
                hc-id = 0

```

```
(end hc-list[0])  
(end fru)  
(end fault-list[0])
```

EXAMPLE 5 Displaying Contents of the Fault Manager syslog Message

```
XSCF> fmdump -m -M  
MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor  
EVENT-TIME: Tue Nov 7 07:01:44 PST 2006  
PLATFORM: SUNW,SPARC-Enterprise, CSN: 7860000764, HOSTNAME: san-ff2-20-0  
SOURCE: sde, REV: 1.5  
EVENT-ID: 2daddee0-2f42-47ee-b5b2-57ae6a41bfc0  
DESC: A Solaris Fault Manager component generated a diagnosis for which  
no message summary exists. Refer to http://www.sun.com/msg/FMD-8000-11  
for more information.  
AUTO-RESPONSE: The diagnosis has been saved in the fault log for  
examination by Sun.  
IMPACT: The fault log will need to be manually examined using fmdump(1M)  
in order to determine if any human response is required.  
  
MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor  
EVENT-TIME: Tue Nov 7 07:03:25 PST 2006  
PLATFORM: SUNW,SPARC-Enterprise, CSN: 7860000764, HOSTNAME: san-ff2-20-0  
SOURCE: sde, REV: 1.5  
EVENT-ID: 2b03ab60-96db-439d-a13a-2f420a1b73c7  
DESC: A Solaris Fault Manager component generated a diagnosis for which  
no message summary exists. Refer to http://www.sun.com/msg/FMD-8000-11  
for more information.  
AUTO-RESPONSE: The diagnosis has been saved in the fault log for  
examination by Sun.  
IMPACT: The fault log will need to be manually examined using fmdump(1M)  
in order to determine if any human response is required.
```

EXIT STATUS The following exit values are returned:

- | | |
|----|--|
| 0 | Successful completion. All records in the log file were examined successfully. |
| >0 | An error occurred. |

SEE ALSO **fmadm(8), fmstat(8)**

fmdump(8)



NAME	fmstat - report fault management module statistics																
SYNOPSIS	fmstat [-a] [-s] [-z] [-m <i>module</i>] [<i>interval</i>] [<i>count</i>] fmstat -h																
DESCRIPTION	<p>The <code>fmstat</code> utility can be used by system administrators and service personnel to report statistics associated with the Fault Manager (fault manager daemon), and its associated set of modules. The Fault Manager runs in the background on each system. It receives telemetry information relating to problems detected by the system software, diagnoses these problems, and initiates proactive self-healing activities such as disabling faulty components.</p> <p>You can use <code>fmstat</code> to view statistics for diagnosis engines and agents that are currently participating in fault management. The <code>fmadm(8)</code>, and <code>fmdump(8)</code> man pages describe more about tools to observe fault management activities.</p> <p>If the <code>-m</code> option is present, <code>fmstat</code> reports any statistics kept by the specified fault management module. The module list can be obtained using <code>fmadm config</code>.</p> <p>If the <code>-m</code> option is not present, <code>fmstat</code> reports the following statistics for each of its client modules:</p> <table><tr><td>module</td><td>The name of the fault management module as reported by <code>fmadm config</code>.</td></tr><tr><td>ev_recv</td><td>The number of telemetry events received by the module.</td></tr><tr><td>ev_acpt</td><td>The number of events accepted by the module as relevant to a diagnosis.</td></tr><tr><td>wait</td><td>The average number of telemetry events waiting to be examined by the module.</td></tr><tr><td>svc_t</td><td>The average service time for telemetry events received by the module, in milliseconds.</td></tr><tr><td>%w</td><td>The percentage of time that there were telemetry events waiting to be examined by the module.</td></tr><tr><td>%b</td><td>The percentage of time that the module was busy processing telemetry events.</td></tr><tr><td>open</td><td>The number of active cases (open problem investigations) owned by the module.</td></tr></table>	module	The name of the fault management module as reported by <code>fmadm config</code> .	ev_recv	The number of telemetry events received by the module.	ev_acpt	The number of events accepted by the module as relevant to a diagnosis.	wait	The average number of telemetry events waiting to be examined by the module.	svc_t	The average service time for telemetry events received by the module, in milliseconds.	%w	The percentage of time that there were telemetry events waiting to be examined by the module.	%b	The percentage of time that the module was busy processing telemetry events.	open	The number of active cases (open problem investigations) owned by the module.
module	The name of the fault management module as reported by <code>fmadm config</code> .																
ev_recv	The number of telemetry events received by the module.																
ev_acpt	The number of events accepted by the module as relevant to a diagnosis.																
wait	The average number of telemetry events waiting to be examined by the module.																
svc_t	The average service time for telemetry events received by the module, in milliseconds.																
%w	The percentage of time that there were telemetry events waiting to be examined by the module.																
%b	The percentage of time that the module was busy processing telemetry events.																
open	The number of active cases (open problem investigations) owned by the module.																

	<code>solve</code>	The total number of cases solved by this module since it was loaded.
	<code>memsz</code>	The amount of dynamic memory currently allocated by this module.
	<code>bufsz</code>	The amount of persistent buffer space currently allocated by this module.
Privileges	<p>You must have <code>platadm</code>, <code>platop</code>, or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>	
OPTIONS	The following options are supported.	
	<code>-a</code>	Prints the default global statistics for the Fault Manager or a module. If used without the <code>m module</code> option, the default global Fault Manager statistics are displayed. If used with the <code>m module</code> option, the global statistics for a module are displayed.
	<code>-h</code>	Displays usage statement.
		When used with other options or operands, an error occurs.
	<code>-m module</code>	<p>Prints a report on the statistics associated with the specified fault management module, instead of the default statistics report.</p> <p>Modules can publish an arbitrary set of statistics to help service the fault management software itself.</p> <p>If used without the <code>-a</code> option, displays only those statistics kept by the module. If used with the <code>-a</code> option, displays statistics kept by the module and the global statistics associated with the module.</p>
	<code>-s</code>	Prints a report on Soft Error Rate Discrimination (SERD) engines associated with the module instead of the default module statistics report. A SERD engine is a construct used by fault management software to determine if a statistical threshold measured as N events in some time T has been exceeded. The <code>-s</code> option can only be used in combination with the <code>-m</code> option.
	<code>-z</code>	Omits statistics with a zero value from the report associated with the specified fault management module. The <code>-z</code> option can only be used in combination with the <code>-m</code> option.

OPERANDS

The following operands are supported:

- count* Print only *count* reports, and then exit.
- interval* Print a new report every *interval* seconds.

If neither *count* nor *interval* is specified, a single report is printed and *fmstat* exits.

If an *interval* is specified but no *count* is specified, *fmstat* prints reports every *interval* seconds indefinitely until the command is interrupted by Ctrl-C.

EXAMPLES

EXAMPLE 1 Displaying FM Statistics for the Syslog Module

```
XSCF> fmstat -a -m syslog-msgs
NAME VALUE DESCRIPTION
bad_code 0 event code has no dictionary name
bad_fmri 0 event fmri is missing or invalid
bad_time 0 event time is not properly encoded
bad_vers 0 event version is missing or invalid
fmd.accepted 0 total events accepted by module
fmd.buflimit 10M limit on total buffer space
fmd.buftotal 0 total buffer space used by module
fmd.caseclosed 0 total cases closed by module
fmd.caseopen 0 cases currently open by module
fmd.casesolved 0 total cases solved by module
fmd.ckptcnt 0 number of checkpoints taken
fmd.ckptrestore true restore checkpoints for module
fmd.ckptsave true save checkpoints for module
fmd.ckpttime 0d total checkpoint time
fmd.ckptzero false zeroed checkpoint at startup
fmd.debugdrop 4 dropped debug messages
fmd.dequeued 1 total events dequeued by module
fmd.dispatched 1 total events dispatched to module
fmd.dlastupdate 1144424838299131us hrttime of last event dequeue
completion
fmd.dropped 0 total events dropped on queue overflow
fmd.dtime 0d total processing time after dequeue
fmd.loadtime 1144424251692484us hrttime at which module was loaded
fmd.memlimit 10M limit on total memory allocated
fmd.memtotal 97b total memory allocated by module
fmd.prdequeued 0 protocol events dequeued by module
fmd.snaptime 1144424838299148us hrttime of last statistics snapshot
fmd.thrlimit 8 limit on number of auxiliary threads
fmd.thrtotal 0 total number of auxiliary threads
fmd.wcnt 0 count of events waiting on queue
fmd.wlastupdate 1144424838299131us hrttime of last wait queue update
```

```
fmd.wlentime 30us      total wait length * time product
fmd.wtime 30us         total wait time on queue
fmd.xprtlimit 256      limit on number of open transports
fmd.xprtopen 0         total number of open transports
fmd.xprtqlimit 256     limit on transport event queue length
log_err 0              failed to log message to log(7D)
msg_err 0              failed to log message to sysmsg(7D)
no_msg 0               message logging suppressed
```

```
XSCF> fmstat
module          ev_rcv ev_acpt wait  svc_t  %w  %b  open solve  memsz
bufsz
case-close      0      0 0.0   0.0  0  0   0   0   0
fmd-self-diagnosis 1      1 0.0   0.2  0  0   1   0  27b  0
sysevent-transport 0      0 0.0  573.2 0  0   0   0   0
syslog-msgs     0      0 0.0   0.0  0  0   0   0  97b  0
```

EXAMPLE 2 Displaying FM Statistics for fmd Self-Diagnosis Module

```
XSCF> fmstat -z -m fmd-self-diagnosis
NAME VALUE          DESCRIPTION
module 1            error events received from fmd modules
```

EXIT STATUS The following exit values are returned:

```
0                Successful completion.
>0               An error occurred.
```

SEE ALSO **fmadm**(8), **fmdump**(8)

NAME	getflashimage - download a firmware image file														
SYNOPSIS	getflashimage [-v] [[-q] -{y n}] [-u user -user] [-p <i>proxy</i> [-t <i>proxy_type</i>]] getflashimage -l getflashimage [[-q] -{y n}] [-d] getflashimage -h														
DESCRIPTION	<p>The <code>getflashimage(8)</code> command downloads a firmware image file for use by the <code>flashupdate(8)</code> command.</p> <p>If any previous image files of the firmware are present on the XSCF unit, they are deleted prior to downloading the new version. After successful download, the image file is checked for integrity, and the MD5 checksum is displayed.</p>														
Privileges	<p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>														
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-d</td><td>Deletes all previous firmware image files still on the XSCF unit, then exits.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-l</td><td>Lists firmware image files that are still on the XSCF unit, then exits.</td></tr><tr><td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td>-p <i>proxy</i></td><td>Specifies the proxy server to be used for transfers. The default transfer type is <code>http</code>, unless modified using the <code>-t <i>proxy_type</i></code> option. The value for proxy must be in the format <i>servername:port</i>. (Refer to Example 3.)</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td>-t <i>proxy_type</i></td><td>Used with the <code>-p</code> option to specify the type of proxy. Possible values for <i>proxy_type</i> are: <code>http</code>, <code>socks4</code>, and <code>socks5</code>. The default value is <code>http</code>.</td></tr></table>	-d	Deletes all previous firmware image files still on the XSCF unit, then exits.	-h	Displays usage statement. When used with other options or operands, an error occurs.	-l	Lists firmware image files that are still on the XSCF unit, then exits.	-n	Automatically answers "n" (no) to all prompts.	-p <i>proxy</i>	Specifies the proxy server to be used for transfers. The default transfer type is <code>http</code> , unless modified using the <code>-t <i>proxy_type</i></code> option. The value for proxy must be in the format <i>servername:port</i> . (Refer to Example 3.)	-q	Suppresses all messages to stdout, including prompts.	-t <i>proxy_type</i>	Used with the <code>-p</code> option to specify the type of proxy. Possible values for <i>proxy_type</i> are: <code>http</code> , <code>socks4</code> , and <code>socks5</code> . The default value is <code>http</code> .
-d	Deletes all previous firmware image files still on the XSCF unit, then exits.														
-h	Displays usage statement. When used with other options or operands, an error occurs.														
-l	Lists firmware image files that are still on the XSCF unit, then exits.														
-n	Automatically answers "n" (no) to all prompts.														
-p <i>proxy</i>	Specifies the proxy server to be used for transfers. The default transfer type is <code>http</code> , unless modified using the <code>-t <i>proxy_type</i></code> option. The value for proxy must be in the format <i>servername:port</i> . (Refer to Example 3.)														
-q	Suppresses all messages to stdout, including prompts.														
-t <i>proxy_type</i>	Used with the <code>-p</code> option to specify the type of proxy. Possible values for <i>proxy_type</i> are: <code>http</code> , <code>socks4</code> , and <code>socks5</code> . The default value is <code>http</code> .														

	<div><div>-u <i>user</i></div><div>Specifies the user name when logging in to a remote ftp or http server that requires authentication. You will be prompted for a password.</div></div> <div><div>-v</div><div>Displays verbose output. This may be helpful when diagnosing network or server problems.</div></div> <div><div>-y</div><div>Automatically answers "Y" (yes) to all prompts.</div></div>						
OPERANDS	<div>The following operands are supported:</div> <div><div><div><i>url</i></div><div>Specifies the URL of the firmware image to download. Supported formats for this value include the following:</div><div>http://server[:port]/path/file</div><div>https://server[:port]/path/file</div><div>ftp://server[:port]/path/file</div><div>file:///media/usb_msd/path/file</div><div>where the value for <i>file</i> is in one of the following formats:</div><div>XCPvvvv.tar.gz</div><div>IKXCPvvvv.tar.gz</div><div>FFXCPvvvv.tar.gz</div><div>DCXCPvvvv.tar.gz</div><div>and <i>vvvv</i> is the four-character version number.</div></div></div>						
EXTENDED DESCRIPTION	<div>When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.</div>						
EXAMPLES	<div><div>EXAMPLE 1</div><div>Downloading a Version from an http Server</div><div>XSCF> getflashimage http://imageserver/images/FFXCP1041.tar.gz</div><div>Existing versions:</div><div><table><tr><td>Version</td><td>Size</td><td>Date</td></tr><tr><td>FFXCP1040.tar.gz</td><td>46827123</td><td>Wed Mar 14 19:11:40 2007</td></tr></table></div><div>Warning: About to delete existing versions.</div><div>Continue? [y n]: y</div><div>Removing FFXCP1040.tar.gz.</div><div>0MB received</div><div>1MB received</div><div>2MB received</div></div>	Version	Size	Date	FFXCP1040.tar.gz	46827123	Wed Mar 14 19:11:40 2007
Version	Size	Date					
FFXCP1040.tar.gz	46827123	Wed Mar 14 19:11:40 2007					

```
...
43MB received
44MB received
45MB received
Download successful: 46827KB at 1016.857KB/s
Checking file...
MD5: e619e6dd367c888507427e58cdb8e0a0
```

EXAMPLE 2 Downloading a Version from an ftp Server

```
XSCF> getflashimage ftp://imageserver/images/FFXCP1041.tar.gz
Existing versions:
      Version              Size  Date
      FFXCP1040.tar.gz    46827123  Wed Mar 14 19:11:40 2007
Warning: About to delete existing versions.
Continue? [y|n]: y
Removing FFXCP1040.tar.gz.
  0MB received
  1MB received
  2MB received
...
  43MB received
  44MB received
  45MB received
Download successful: 46827KB at 1016.857KB/s
Checking file...
MD5: e619e6dd367c888507427e58cdb8e0a1
```

EXAMPLE 3 Downloading Using an http Proxy Server With Port 8080

```
XSCF> getflashimage -p webproxy.sun.com:8080 \
http://imageserver/images/FFXCP1041.tar.gz
Existing versions:
      Version              Size  Date
      FFXCP1040.tar.gz    46827123  Wed Mar 14 19:11:40 2007
Warning: About to delete existing versions.
Continue? [y|n]: y
Removing FFXCP1040.tar.gz.
  0MB received
  1MB received
  2MB received
...
  43MB received
  44MB received
  45MB received
```

```
Download successful: 46827KB at 1016.857KB/s
Checking file...
MD5: e619e6dd367c888507427e58cdb8e0a2
```

EXAMPLE 4 Downloading Using a User Name and Password

```
XSCF> getflashimage -u jsmith \
http://imageserver/images/FFXCP1041.tar.gz
Existing versions:
      Version              Size  Date
      FFXCP1040.tar.gz    46827123  Wed Mar 14 19:11:40 2007
Warning: About to delete existing versions.
Continue? [y|n]: y
Removing FFXCP1040.tar.gz.
Password: [not echoed]
      0MB received
      1MB received
      2MB received
...
      43MB received
      44MB received
      45MB received
Download successful: 46827KB at 1016.857KB/s
Checking file...
MD5: e619e6dd367c888507427e58cdb8e0a3
```

EXAMPLE 5 Downloading From a USB Memory Stick

```
XSCF> getflashimage file:///media/usb_msd/images/FFXCP1041.tar.gz
Existing versions:
      Version              Size  Date
      FFXCP1040.tar.gz    46827123  Wed Mar 14 19:11:40 2007
Warning: About to delete existing versions.
Continue? [y|n]: y
Removing FFXCP1040.tar.gz.
Mounted USB device
      0MB received
      1MB received
...
      44MB received
      45MB received
Download successful: 46827 Kbytes in 109 secs (430.094 Kbytes/sec)
Checking file...
MD5: e619e6dd367c888507427e58cdb8e0a4
```

EXIT STATUS	The following exit values are returned:
	0 Successful completion.
	>0 An error occurred.

SEE ALSO	flashupdate (8)
-----------------	------------------------

getflashimage(8)



NAME	ioxadm - manage External I/O Expansion Units and add-in cards that contain Energy Storage Modules and are attached to the host system								
SYNOPSIS	<p>ioxadm [-f] [-p] [-v] [-M] env [-e] [-l] [-t] [<i>target</i> [<i>sensors</i>]]</p> <p>ioxadm [-f] [-p] [-v] [-M] lifetime [<i>target</i> -z <i>target</i>]</p> <p>ioxadm [-f] [-p] [-v] [-M] list [<i>target</i>]</p> <p>ioxadm [-f] [-p] [-v] [-M] locator [on off] [<i>target</i>]</p> <p>ioxadm [-f] [-p] [-v] [-M] poweroff <i>target</i></p> <p>ioxadm [-f] [-p] [-v] [-M] poweron <i>target</i></p> <p>ioxadm [-f] [-p] [-v] [-M] reset <i>target</i></p> <p>ioxadm [-f] [-p] [-v] [-M] settled [on off slow fast] <i>target</i> <i>led_type</i></p> <p>ioxadm -h</p>								
DESCRIPTION	<p>ioxadm(8) manages External I/O Expansion Units, link cards, and cards that contain Energy Storage Modules (ESM) and are attached to the host system.</p> <p>The M3000 server does not support External I/O Expansion Units.</p> <p>When using this utility you must specify an operand, and any options that operand requires. The target device can be a card mounted in a built-in PCI slot in the host system; an External I/O Expansion Unit; or a field replaceable unit (FRU) in an External I/O Expansion Unit. The card in the host system is identified by a string that specifies the host path to the card. A linkcard installed in the host system is called a downlink. A linkcard installed in an I/O Expansion Unit boat is called an uplink.</p> <p>For more information, see <i>target</i> in OPTIONS.</p>								
Privileges	<p>You must have one of the following privileges to run these commands:</p> <table><tr><th>Required Privileges</th><th>Operands</th></tr><tr><td>platop</td><td>env, list</td></tr><tr><td>platadm</td><td>env, list, locator, poweroff, poweron</td></tr><tr><td>fieldeng</td><td>All operands</td></tr></table> <p>Refer to setprivileges(8) for more information.</p>	Required Privileges	Operands	platop	env, list	platadm	env, list, locator, poweroff, poweron	fieldeng	All operands
Required Privileges	Operands								
platop	env, list								
platadm	env, list, locator, poweroff, poweron								
fieldeng	All operands								

OPTIONS

The following options are supported.

- f Forces command execution by ignoring warnings.
- h Displays usage statement.
- When used with other options or operands, an error occurs.
- M Displays text by page.
- p Displays only parsable output, suppressing headers in that output. Fields are separated by single tabs.
- v Displays verbose output. Refer to specific operands for details.

target

Specifies the target device, which can be a card mounted in a built-in PCI slot in the host system; an External I/O Expansion Unit; or a field replaceable unit (FRU) in an External I/O Expansion Unit.

The card in the host slot is identified by the *host_path* to the card. *host_path* is platform dependent and indicates the path to the slot on the host system that contains the card. The *host_path* has the following format:

```
IOU#0-PCI#0 IO Board 0, PCI-E slot0
```

The External I/O Expansion Unit (*box_id*) is identified by serial number.

Use *iox@nnnn*, where *nnnn* represents the last four digits of the box serial number.

Some commands affect only a single component of an External I/O Expansion Unit system. For example, individual boats and power supplies can be turned on and turned off independently.

A FRU in an External I/O Expansion Unit (*fru*) is identified as:

```
iox@nnnn/iob0 - I/O boat in the left tray (rear view)
iox@nnnn/iob1 - I/O boat in the right tray (rear view)
iox@nnnn/iob0/link - Uplink card in boat 0
iox@nnnn/iob1/link - Uplink card in boat 1
iox@nnnn/ps0 - Power supply in the left bay (front view)
iox@nnnn/ps1 - Power supply in the right bay (front view)
```


OPERANDS The following operands are supported:

env [-elt] [<i>target</i> [<i>sensors</i>]]	
Displays a summary of an External I/O Expansion Unit or link card's environmental state.	
-e	Displays electrical states: measured voltage, current, fan speed, switch settings.
-l	Displays LED states.
-t	Displays thermal readings.
<i>target</i>	See <i>target</i> in OPTIONS for a general description and the text below for information specific to env.
<i>sensors</i>	Specifies sensors about which data is to be displayed. If not specified, information about all sensors is shown. Cannot be used without <i>target</i> .

If you specify a FRU in an I/O Expansion Unit or a card in a host slot as the target, `env` only displays environmentals about that FRU.

If no `-e`, `-l`, or `-t` option is specified, the command displays all sensor information.

If no sensors are specified, the command displays information about all sensors. If no target is specified, information about all External I/O Expansion Units is displayed.

If you specify a `box_id` as the target, `env` displays a list of sensor readings for all FRUs in the specified External I/O Expansion Unit and the attached cards in the host slot.

The options for `env` can be used in any combination.

The following information also applies to `env` and its display:

- Results are displayed in tabular format. Each FRU sensor is listed in the first column. The second column shows the sensor name, such as `T_AMBIENT` for ambient temperature, or `V_12V_0V` for the voltage reading of the 12V rail. The third, fourth, and fifth columns display the sensor reading (Value), sensor resolution (Res), and Units, respectively. See EXAMPLE 1.
 - Each FRU can have a variety of different sensors. When specifying multiple values for `sensors`, use spaces to separate the values. Possible values for `sensors` can be seen in the `Sensor` column of EXAMPLE 1. Units are given in Celsius degrees, Volts, Amperes, SWITCH and RPM.
 - The `sensors` names are FRU-dependent and may change from FRU type to FRU type and even among individual FRUs.
 - If the `-v` option is set, verbose output is displayed. In addition to the regular output, the output also includes: the maximum and minimum values supported by the sensors (`Max` and `Min`), along with the low and high warning thresholds (`Min Alarm` and `Max Alarm`).
 - LED indicators do not support these fields.
 - Fields containing a "-" indicate an unsupported setting. For example, there may be no minimum temperature alarm threshold.
-

led_type

Used with the *setled* operand, specifies a software-controlled FRU LED. The following table indicates which LED states can be controlled using the *setled* operand with the *off*, *on*, *fast*, and *slow* LED state settings. Y (yes) indicates that the LED can be controlled, N (no) indicates that it cannot be controlled.

LED	Name	off	on	fast	slow
ACTIVE	Power/OK	Y	Y	Y	Y
LOCATE	Locate	Y	N	Y	N
SERVICE	Fault/Locate	Y	Y	Y	Y
RDY2RM	Ready to remove	Y	Y	Y	Y
OVERTEMP	Overtemp	*	*	*	*
DCOK	DC Power	N	N	N	N
POWER	AC Power	N	N	N	N
DATA	Data	N	N	N	N
MGMT	Management	N	N	N	N

* The OVERTEMP LED and chassis ACTIVE LED may be set to each state. However, the hardware frequently updates the LED state so changes to the LED state may not be visible.

Note - Other LEDs are not under software control. A list of LEDs present in the system can be displayed by using the "*env -l*" operand.

lifetime target | *-z target*

Clears or queries the runtime of cards that contain an energy storage module (ESM). Used without options, *lifetime* displays a list of cards with an ESM, one card per line, and shows, in minutes, each card's runtime and remaining lifespan. Runtime is updated at four-hour intervals.

If *target* is specified, the command lists only the specified ESM card.

If *-z* is specified, the command zeroes the runtime for the specified *target* and clears fault status for the the card. You must specify *target* with the *-z* option. See EXAMPLEs 6, 7 and 8.

list [*target*]

Lists the External I/O Expansion Units under system management.

If no *target* is specified, *list* displays a list of External I/O Expansion Units, one per line. Each line contains the unique identifier for that box and the host-specific name(s) for its downlink card(s). See EXAMPLE 3.

If an External I/O Expansion Unit argument or downlink card path is specified, the command displays a single line with the indicated FRU. If a *host path* is specified, only the downlink card information is displayed. If the verbose option [*-v*] is set, the output includes detailed FRU information. See EXAMPLEs 4 and 5.

`locator [on |off] [target]`

Sets or queries the state of the locator indicator (LED).

Without options, `locator` reports the current state of the LED on the specified FRU.

A *target* argument is required when using the `on` or `off` field:

`on` Turns the LED on.

`off` Turns the LED off.

The chassis locator is a white LED. If a FRU is specified, the FRU yellow service LED is used along with the chassis (locator) LED.

Only one FRU can have a location indicator enabled at a time in an External I/O Expansion Unit chassis. Turning off the chassis (locator) LED will also turn off the blinking (service) FRU LED. See EXAMPLEs 10, 11 and 12.

`poweroff target`

Powers down the given FRU and lights appropriate LEDs to indicate the FRU is ready to remove. Must be used with the `-f` option. Be aware that using `-f` can crash the domain.

Do not remove both power supply units (PSUs) in the same External I/O Expansion Unit. If both PSUs are powered down in this way, then the External I/O Expansion Unit cannot be turned back on from the command line. It must be powered on physically.

Note - When a power supply is powered off, the LEDs and fan may still run since they receive power from both supplies.

`poweron target`

Restores full power to an I/O boat or reenables output from the power supply (PS) that has previously been marked ready-to-remove. When a PSU is newly installed and the power switch is in the on position, or a boat is connected to a powered link card, they automatically power themselves on. However, this command can be used to power a PSU or I/O boat back on that previously had been powered down for removal as long as the power switch is in the on position.

`reset target`

Reinitializes FRU components used to monitor External I/O Expansion Unit environmentals. If a boat or link card is specified, the bridge controllers in the link cards are reset and re-initialized. If a box is specified, the fan controller and demux in the box are reset and re-initialized along with all bridge controllers associated with the External I/O Expansion Unit.

settled [on|off|slow|fast] *target led_type*

Sets LED state:

off	Off.
on	On.
fast	Fast blink.
slow	Slow blink.

Refer to the entry for *led_type* in this section for detailed information about LED types.

EXAMPLES

EXAMPLE 1 Display temperature, voltage, current, and fan-speed sensor readings

```
XSCF> ioxadm env -te iox@A3B5
```

Location	Sensor	Value	Res	Units
IOX@A3B5/PS0	T_AMBIENT	28.000	1.000	C
IOX@A3B5/PS0	T_CHIP	28.000	1.000	C
IOX@A3B5/PS0	T_HOTSPOT	31.000	1.000	C
IOX@A3B5/PS0	SWITCH	On	-	SWITCH
IOX@A3B5/PS0	V_12V_ANODE	11.703	0.059	V
IOX@A3B5/PS0	V_12V_CATHODE	11.703	0.059	V
IOX@A3B5/PS0	V_ISHARE	0.632	0.040	V
IOX@A3B5/PS0	I_DC	2.316	0.289	A
IOX@A3B5/PS0	S_FAN_ACTUAL	3708.791	40.313	RPM
IOX@A3B5/PS0	S_FAN_SET	4500.000	300.000	RPM
IOX@A3B5/PS1	T_AMBIENT	28.000	1.000	C
IOX@A3B5/PS1	T_CHIP	29.000	1.000	C
IOX@A3B5/PS1	T_HOTSPOT	31.000	1.000	C
IOX@A3B5/PS1	SWITCH	On	-	SWITCH
IOX@A3B5/PS1	V_12V_ANODE	11.762	0.059	V
IOX@A3B5/PS1	V_12V_CATHODE	11.762	0.059	V
IOX@A3B5/PS1	V_ISHARE	0.672	0.040	V
IOX@A3B5/PS1	I_DC	5.211	0.289	A
IOX@A3B5/PS1	S_FAN_ACTUAL	4115.854	49.588	RPM
IOX@A3B5/PS1	S_FAN_SET	4500.000	300.000	RPM
IOX@A3B5/IOB0	T_CHIP	32.000	1.000	C
IOX@A3B5/IOB0	T_HOTSPOT	35.000	1.000	C
IOX@A3B5/IOB1	T_CHIP	33.000	1.000	C
IOX@A3B5/IOB1	T_HOTSPOT	36.000	1.000	C
IOX@A3B5/IOB1	V_12_0V	12.052	0.005	V
IOX@A3B5/IOB1	V_12V_MAIN	12.000	0.400	V
IOX@A3B5/IOB1	V_1_0V	1.030	0.001	V
IOX@A3B5/IOB1	V_1_5V	1.496	0.001	V

IOX@A3B5/IOB1	V_3_3V	3.291	0.002	V
IOX@A3B5/IOB1	V_3_3AUX	3.308	0.002	V
IOX@A3B5/IOB1	I_DC	8.600	0.200	A

EXAMPLE 2 Display all sensor readings on a link and suppress headers

```
XSCF> ioxadm -p env iou#1-pci#1
IOU#1-PCI#1 DATA On - LED
IOU#1-PCI#1 MGMT Flash - LED
```

EXAMPLE 3 Display all External I/O Expansion Units or downlink card paths

```
XSCF> ioxadm list
IOX Link 0 Link 1
IOX@0033 IOU#1-PCI#4 IOU#1-PCI#1
IOX@12B4 - IOU#1-PCI#2
- IOU#2-PCI#1
```

In this example the `list` command is used to display the connections between External I/O Expansion Units and downlink cards in the host. `IOX@0033` (which includes boats, uplink cards, and power supplies) is connected to the host through two downlink cards. The `Link 0` column shows which host downlink card is attached to boat0. The `Link 1` column shows which host downlink card is attached to boat1. `IOX@12B4` is connected to the host through one downlink card. This card is connected to boat1. A "-" shows that there is no host link connection to the box. It may have a boat and uplink card installed in the bay, or the bay could be empty. If the boat is installed, either it is not connected to the host, or the host downlink card slot is powered off.

EXAMPLE 4 Display a single External I/O Expansion Unit

```
XSCF> ioxadm list iox@12B4
IOX Link 0 Link 1
IOX@12B4 - IOU#1-PCI#2
```

EXAMPLE 5 Display a card using `host_path` in verbose mode with headers suppressed

```
XSCF> ioxadm -p -v list IOU#0-PCI#1
IOU#0-PCI#1 F20 - 000004 5111500-01 On
```

EXAMPLE 6 Show runtime of card with ESM

```
XSCF> ioxadm lifetime IOU#0-PCI#1
NAC Total Time On (% of life)
IOU#0-PCI#1 1052370 100
```

EXAMPLE 7 Show runtime of card with ESM using verbose output

```
XSCF> ioxadm -v lifetime IOU#0-PCI#1
```

NAC	Total Time On	(% of life)	Warning Time	Fault Time
IOU#0-PCI#1	1052370	100	1041120	1051200

EXAMPLE 8 Clear runtime of card with ESM, show runtime is cleared

```
XSCF> ioxadm lifetime -z IOU#0-PCI#1
```

```
XSCF> ioxadm lifetime IOU#0-PCI#1
```

NAC	Total Time On	(% of life)
IOU#0-PCI#1	0	0

EXAMPLE 9 Show card with ESM after runtime has been cleared, using verbose output

```
XSCF> ioxadm -v lifetime IOU#0-PCI#1
```

NAC	Total Time On	(% of life)	Warning Time	Fault Time
IOU#0-PCI#1	0	0	1041120	1051200

EXAMPLE 10 Display locator LED status for the External I/O Expansion Unit

```
XSCF> ioxadm locator iox@12B4
```

Location	Sensor	Value	Resolution	Units
IOX@12B4	LOCATE	Fast	-	LED
IOX@12B4/PS0	SERVICE	Fast	-	LED

If the FRU service indicator is already on due to a detected fault condition, only the box locator LED will be set to fast.

EXAMPLE 11 Power-on the locator LED for power supply 0 in External I/O Expansion Unit 12B4

```
XSCF> ioxadm locator on iox@12B4/ps0
```

EXAMPLE 12 Enable the indicator for power supply 1 when power supply 1 has a fault indication

```
XSCF> ioxadm locator on iox@x031/ps1
```

```
XSCF> ioxadm locator
```

Location	Sensor	Value	Resolution	Units
IOX@X031	LOCATE	Fast	-	LED

```
XSCF> ioxadm env -1 iox@x031/ps1 SERVICE
```

Location	Sensor	Value	Resolution	Units
IOX@X031/PS1	SERVICE	On	-	LED

The External I/O Expansion Unit chassis white LED has an integrated push button. The button can be used to toggle the state of the chassis white locator LED between off and fast. If the push button is used to turn off the locator LED, fast blink FRU service LEDs are cleared.

EXIT STATUS	The following exit values are returned:
0	Successful completion.
>0	An error occurred.

NAME	moveboard - move an eXtended System Board (XSB) from the current domain to another						
SYNOPSIS	<p>moveboard [[-q] [-y n]] [-f] [-v] [-c configure] -d <i>domain_id</i> <i>xsb</i> [<i>xsb...</i>]</p> <p>moveboard [[-q] [-y n]] [-f] [-v] -c assign -d <i>domain_id</i> <i>xsb</i> [<i>xsb...</i>]</p> <p>moveboard [[-q] [-y n]] [-f] [-v] -c reserve -d <i>domain_id</i> <i>xsb</i> [<i>xsb...</i>]</p> <p>moveboard -h</p>						
DESCRIPTION	<p>The moveboard(8) command disconnects an XSB from the current domain and, based on the domain component list (DCL), assigns it to, or configures it in, the specified domain.</p> <p>The moveboard(8) command is not available on the M3000 server.</p> <p>One of the following movement methods can be specified:</p> <table><tr><td>configure</td><td>Disconnects a configured XSB from its domain configuration and configures it into the specified destination domain configuration. The incorporated XSB can be accessed from the Oracle Solaris OS.</td></tr><tr><td>assign</td><td>Disconnects a configured XSB from its domain configuration and assigns it to the specified destination domain configuration. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned system board is configured in the domain by reboot the domain or execution of the addboard(8) command with "-c configure".</td></tr><tr><td>reserve</td><td>Reserves disconnection of the specified XSB from the domain configuration of the move source, and reserves assignment of the XSB to the domain configuration of the move destination. The XSB is assigned to the domain configuration of the move destination when the domain power of the move source is turned off or rebooted. The XSB is subsequently incorporated when the domain power of the move destination is turned on or rebooted.</td></tr></table>	configure	Disconnects a configured XSB from its domain configuration and configures it into the specified destination domain configuration. The incorporated XSB can be accessed from the Oracle Solaris OS.	assign	Disconnects a configured XSB from its domain configuration and assigns it to the specified destination domain configuration. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned system board is configured in the domain by reboot the domain or execution of the addboard(8) command with "-c configure".	reserve	Reserves disconnection of the specified XSB from the domain configuration of the move source, and reserves assignment of the XSB to the domain configuration of the move destination. The XSB is assigned to the domain configuration of the move destination when the domain power of the move source is turned off or rebooted. The XSB is subsequently incorporated when the domain power of the move destination is turned on or rebooted.
configure	Disconnects a configured XSB from its domain configuration and configures it into the specified destination domain configuration. The incorporated XSB can be accessed from the Oracle Solaris OS.						
assign	Disconnects a configured XSB from its domain configuration and assigns it to the specified destination domain configuration. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned system board is configured in the domain by reboot the domain or execution of the addboard(8) command with "-c configure".						
reserve	Reserves disconnection of the specified XSB from the domain configuration of the move source, and reserves assignment of the XSB to the domain configuration of the move destination. The XSB is assigned to the domain configuration of the move destination when the domain power of the move source is turned off or rebooted. The XSB is subsequently incorporated when the domain power of the move destination is turned on or rebooted.						
Privileges	<p>You must have one of the following privileges to run this command:</p> <table><tr><td>platadm</td><td>Can run this command for all domains.</td></tr><tr><td>domainadm</td><td>Can run this command only for your managed domains. Note - You must have the domainadm privileges for both of source domain and destination domain to run moveboard(8) command.</td></tr></table> <p>Refer to setprivileges(8) for more information.</p>	platadm	Can run this command for all domains.	domainadm	Can run this command only for your managed domains. Note - You must have the domainadm privileges for both of source domain and destination domain to run moveboard(8) command.		
platadm	Can run this command for all domains.						
domainadm	Can run this command only for your managed domains. Note - You must have the domainadm privileges for both of source domain and destination domain to run moveboard(8) command.						

OPTIONS

The following options are supported:

- c assign Disconnects a configured XSB from its domain configuration and assigns it to the domain configuration of the move destination. If the -c option is omitted, "-c configure" is used.
- c configure Disconnects a configured XSB from its domain configuration and configures it in the domain configuration of the move destination. If the -c option is omitted, "-c configure" is used.
- c reserve Reserves disconnection of an XSB from its current domain configuration, and reserves assignment of the XSB to the domain configuration of the move destination. If the -c option is omitted, "-c configure" is used.
- d *domain_id* Specifies the ID of the destination domain in which an XSB is to be moved. *domain_id* can be 0–23 depending on the system configuration.
- f Forcibly detaches the specified XSB.

Caution - If the -f option is used to forcibly remove the XSB from the source domain, a serious problem may occur in a process bound to CPU or process accessing a device. For this reason, use of the -f option is not recommended in normal operation. If the -f option must be specified, verify the statuses of the source domain and job processes.
Note - The XSB which failed or detected the failure will not be configured to the DCL forcibly.
- h Displays usage statement. When used with other options or operands, an error occurs.
- n Automatically answers "n" (no) to all prompts.
- q Suppresses all messages to stdout, including prompts.
- v Specifies verbose output. If this option is specified with the -q option, the -v option is ignored.
- y Automatically answers "y" (yes) to all prompts.

OPERANDS The following operand is supported:

<i>xsb</i>	Specifies the XSB number to be moved. Multiple <i>xsb</i> operands are permitted, separated by spaces. The following <i>xsb</i> form is accepted:
<i>x-y</i>	
where:	
<i>x</i>	An integer from 00–15.
<i>y</i>	An integer from 0–3.

**EXTENDED
DESCRIPTION**

- You can execute the `moveboard(8)` command on a source domain or a destination domain that is not running. When the source domain is running, the `moveboard(8)` command with `-c configure` or `-c assign` will succeed only if the following Oracle Solaris Service Management Facility (SMF) services are active on that domain:
 - Domain SP Communication Protocol (`dscp`)
 - Domain Configuration Server (`dcs`)
 - Oracle Sun Cryptographic Key Management Daemon (`sckmd`)
- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter `"y"` to execute the command or `"n"` to cancel the command.
- If `-c configure` is specified when either of the following conditions apply to the domains, the XSB is configured in the domain configuration:
 - The Oracle Solaris OS of both the source and destination domains are running.
 - The Oracle Solaris OS of the destination domain is running even though the source domain is powered off.
- If `-c assign` is specified when either of the following conditions apply to the domains, the XSB is assigned to the domain configuration:
 - The Oracle Solaris OS of the source domain is running.
 - The source domain is powered off
- If `-c reserve` is specified when either the domain power of the move source has been turned off or the Oracle Solaris OS is not running, the XSB is immediately disconnected from the domain of the move source and assigned to the domain of the move destination
- Moving the XSB involves the following internal operations and therefore command execution may take time.
 - Disconnecting the hardware resource of the XSB from the Oracle Solaris OS

- Running a hardware diagnosis on the XSB when connecting it
- See the `setdcl(8)` and `showdcl(8)` commands for DCL.

EXAMPLES

EXAMPLE 1 Disconnects XSB#00-0 from the current domain and attaches it to domain ID 1.

```
XSCF> moveboard -d 1 00-0
```

EXAMPLE 2 Reserves assignment of the XSB#00-0 to the domain ID 1.

```
XSCF> moveboard -d 1 -c reserve 00-0
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.


SEE ALSO

`addboard(8)`, `deleteboard(8)`, `setdcl(8)`, `setupfru(8)`, `showboards(8)`, `showdcl(8)`, `showdevices(8)`, `showdomainstatus(8)`, `showfru(8)`

NAME	nslookup - refer to the DNS server for the host								
SYNOPSIS	nslookup <i>hostname</i> nslookup -h								
DESCRIPTION	<p>nslookup(8) refers to the DNS server for the host.</p> <p>The following information is displayed:</p> <table> <tr> <td>Server</td><td>DNS server name</td></tr> <tr> <td>Address</td><td>IP address of DNS server</td></tr> <tr> <td>Name</td><td>Specified host name</td></tr> <tr> <td>Address</td><td>IP address of the host name</td></tr> </table>	Server	DNS server name	Address	IP address of DNS server	Name	Specified host name	Address	IP address of the host name
Server	DNS server name								
Address	IP address of DNS server								
Name	Specified host name								
Address	IP address of the host name								
Privileges	<p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following option is supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> </table>	-h	Displays usage statement. When used with other options or operands, an error occurs.						
-h	Displays usage statement. When used with other options or operands, an error occurs.								
OPERANDS	<p>The following operand is supported:</p> <table> <tr> <td><i>hostname</i></td><td>Specifies the host name to be referred. A Fully Qualified Domain Name (FQDN) or a short form of the name can be specified.</td></tr> </table>	<i>hostname</i>	Specifies the host name to be referred. A Fully Qualified Domain Name (FQDN) or a short form of the name can be specified.						
<i>hostname</i>	Specifies the host name to be referred. A Fully Qualified Domain Name (FQDN) or a short form of the name can be specified.								
EXAMPLES	<p>EXAMPLE 1 Displays the host whose host name is scf0-hostname0.</p> <pre> XSCF> nslookup scf0-hostname0 Server: server.example.com Address: xx.xx.xx.xx Name: scf0-hostname0.example.com Address: xx.xx.xx.xx </pre>								

nslookup(8)

EXIT STATUS	The following exit values are returned:
0	Successful completion.
>0	An error occurred.

NAME	password - manage user passwords and expiration settings		
SYNOPSIS	<p>password [-e <i>days</i> <i>date</i> Never] [-i <i>inactive</i>] [-M <i>maxdays</i>] [-n <i>mindays</i>] [-w <i>warn</i>] [<i>user</i>]</p> <p>password -h</p>		
DESCRIPTION	<p>password (8) changes a user's password and password expiration settings.</p> <p>The password is specified in up to 32 characters. The following characters are valid:</p> <ol style="list-style-type: none"> 1. abcdefghijklmnopqrstuvwxyz 2. ABCDEFGHIJKLMNOPQRSTUVWXYZ 3. 0123456789 4. !@#\$%^&*[]{}()_ - + ='~,></'";:[SPACE] <p>When invoked with one or more options, password will make changes to the expiration settings of the account. See <code>setpasswordpolicy(8)</code> for a description of default values.</p> <p>When invoked without options, password prompts you to change the account password.</p> <p>When invoked without a <i>user</i> operand, password operates on the current user account.</p> <hr/> <div>  <div> <p>Caution – When you change the password for another user by using the <i>user</i> operand, the system password policy is <i>not</i> enforced. The <i>user</i> operand is intended only for creating a new user's initial password or replacing a lost or forgotten password for a user account. When changing another user's password, be sure to choose a password that conforms with the system password policy. You can display the current password policy settings with the <code>showpasswordpolicy(8)</code> command.</p> </div> </div> <hr/> <p>Whether the user name is specified or not, the account must be local. password returns an error if it is not local.</p>		
Privileges	<p>You must have one of the following privileges to run this command:</p> <table> <tr> <td>useradm</td><td>Can run this command with or without any options or operand. Can change the password for any account.</td></tr> </table> <p>No privileges are required in the following cases:</p> <ul style="list-style-type: none"> ■ To change the password for the current user account ■ To use the -h option 	useradm	Can run this command with or without any options or operand. Can change the password for any account.
useradm	Can run this command with or without any options or operand. Can change the password for any account.		

OPTIONS

Refer to `setprivileges(8)` for more information.

The following options are supported

- e *days* | *date* | *Never* *days* sets the number of days, starting from today, during which the XSCF account is enabled. *days* is in the format of a number (0-10730). If the current date plus the number of days exceeds January 2038 the number is considered invalid and the command will fail.

date sets the date when the account expires, not exceeding January 2038. The date format can be:

mm/dd/yy (10/30/08)
yyyy-mm-dd (2008-10-30)
yy-mm-dd (08-10-30)
dd-Mmm-yy (30-Oct-08)
dd-Mmm-yyyy (30-Oct-2008)
dd Mmm yy ("30 Oct 08")
dd Mmm yyyy ("30 Oct 2008")
Mmm dd, yy ("Oct 30, 08")
Mmm dd, yyyy ("Oct 30, 2008")

 Quotes must be used for formats with an embedded space. It is case insensitive.

 Never means an account will not expire.
- h Displays usage statement.

 When used with other options or operands, an error occurs.
- i *inactive* Sets the number of days after a password expires until the account is locked. This value is assigned to new user accounts when they are created. The initial value is -1. A value of -1 means that the account will not be locked after the password expires. Valid values are integers with value of -1 - 999999999.

	<p><code>-M <i>maxdays</i></code> Sets the maximum number of days that a password is valid. This value is assigned to new user accounts when they are created. The initial value is 999999.</p> <p>Valid values are integers with value of 0 - 999999999.</p> <p><code>-n <i>mindays</i></code> Sets the minimum number of days between password changes. An initial value of zero for this field indicates that you can change the password at any time.</p> <p>Valid values are integers with value of 0 - 999999999.</p> <p>This value is assigned to new user accounts when they are created.</p> <p><code>-w <i>warn</i></code> Sets the default number of days before password expiration at which to start warning the user. This value is assigned to new user accounts when they are created. The initial value is 7.</p> <p>Valid values are integers with value of 0 - 999999999.</p>
OPERANDS	<p>The following operands are supported:</p> <p><i>user</i> Specifies a valid user name.</p>
EXAMPLES	<p>EXAMPLE 1 Enabling Password Until February 2, 2008</p> <pre>XSCF> password -e 2008-02-02</pre> <p>EXAMPLE 2 Set Password Lock 10 Days After Password Expiration</p> <pre>XSCF> password -i 10</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	<p><code>setpasswordpolicy (8)</code>, <code>showpasswordpolicy (8)</code></p>

password(8)



NAME	ping - send the ICMP ECHO_REQUEST packets to the network host or the network device							
SYNOPSIS	ping [-c <i>count</i>] [-q] <i>host</i> ping -h							
DESCRIPTION	<p>The ping(8) command utilizes the ICMP ECHO_REQUEST datagram to elicit an ICMP ECHO_RESPONSE from the specified host or network device.</p> <p>When the ping(8) command normally executed, the network between XSCF and the specified host or network device can be judged as normal. And the network performance can be measured from the result.</p>							
Privileges	<p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none">■ To execute the command to DSCP address: platadm, fieldeng■ To execute the command to "localhost" or to the loopback address (127.0.0.0/8): fieldeng■ To execute the command to Inter SCF Network (ISN): fieldeng■ The case other than those above: No privileges are required. <p>Refer to setprivileges(8) for more information.</p>							
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-c <i>count</i></td><td>Specifies the number of times to send the packet. After sent the packet for the number of specified times and received its response, the ping(8) command terminates. If omitted, the command continues sending the packet until the interrupt occurs.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-q</td><td>Suppresses the output. Outputs the data at the start and at the end of the command.</td></tr></table>		-c <i>count</i>	Specifies the number of times to send the packet. After sent the packet for the number of specified times and received its response, the ping(8) command terminates. If omitted, the command continues sending the packet until the interrupt occurs.	-h	Displays usage statement. When used with other options or operands, an error occurs.	-q	Suppresses the output. Outputs the data at the start and at the end of the command.
-c <i>count</i>	Specifies the number of times to send the packet. After sent the packet for the number of specified times and received its response, the ping(8) command terminates. If omitted, the command continues sending the packet until the interrupt occurs.							
-h	Displays usage statement. When used with other options or operands, an error occurs.							
-q	Suppresses the output. Outputs the data at the start and at the end of the command.							
OPERANDS	<p>The following operand is supported:</p> <table><tr><td><i>host</i></td><td>Specifies the network host or the network device to send the packet. Can be specified with host name or IP address.</td></tr></table>		<i>host</i>	Specifies the network host or the network device to send the packet. Can be specified with host name or IP address.				
<i>host</i>	Specifies the network host or the network device to send the packet. Can be specified with host name or IP address.							

EXAMPLES

EXAMPLE 1 Sends the packet three times to a host named scf0-hostname0.

```
XSCF> ping -c 3 scf0-hostname0
PING scf0-hostname0 (XX.XX.XX.XX): 56 data bytes
64 bytes from XX.XX.XX.XX: icmp_seq=0 ttl=64 time=0.1 ms
64 bytes from XX.XX.XX.XX: icmp_seq=1 ttl=64 time=0.1 ms
64 bytes from XX.XX.XX.XX: icmp_seq=2 ttl=64 time=0.1 ms

--- scf0-hostname0 ping statistics ---
3 packets transmitted, 3 packets received, 0% packet loss
round-trip min/avg/max = 0.1/0.1/0.1 ms
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

NAME	poweroff - turn off the power to the specified domain
SYNOPSIS	poweroff [[-q] -{y n}] [-f] [-M] -d <i>domain_id</i> poweroff [[-q] -{y n}] [-a] [-M] poweroff -h
DESCRIPTION	<p>The <code>poweroff(8)</code> command turns off the power to the specified domain.</p> <p>The command can turn off the power to the specified domain or to all domains. After ordinary shutdown processing for the operating system is executed, the power is turned off.</p>
Privileges	<p>You must have one of the following privileges to run this command:</p> <p><code>platadm</code>, <code>fielddeng</code> Can run this command for all domains.</p> <p><code>domainadm</code>, <code>domainmgr</code> Can run this command only for your managed domains.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-a Turns off the power to all domains. Only users who have the <code>platadm</code> and <code>fielddeng</code> privileges can specify this option. This option turns off the power to a system in process of warm-up or air-conditioning, or to a domain in process of power-on.</p> <p>-d <i>domain_id</i> Specifies the ID of the domain to be turned off. <i>domain_id</i> can be 0–23 depending on the system configuration. This option does not turn off the power to a system in process of warm-up or air-conditioning, or to a domain in process of power-on.</p> <p>-f Uses XSCF to forcibly turn off the power to the specified domain. This option is used together with the <code>-d</code> option.</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-M Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.</p> <p>-n Automatically answers "n" (no) to all prompts.</p> <p>-q Suppresses all messages to stdout, including prompts.</p> <p>-y Automatically answers "y" (yes) to all prompts.</p>

**EXTENDED
DESCRIPTION**

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "**y**" to execute the command or "**n**" to cancel the command.
- If the Oracle Solaris OS of the target domain is running, the poweroff(8) command processing is equivalent to that of the shutdown(1M) command with the "-i5" option specified.
- A domain cannot be powered off while the Oracle Solaris OS of the domain is booting. Execute the poweroff(8) command again after the booting is completed.
- A domain cannot be powered off by the poweroff(8) command while the Oracle Solaris OS of the domain is running in single-user mode. Execute the shutdown(1M) command in the domain.
- When the poweroff(8) command is executed, power-off results for each of the specified domains are displayed in the following format:

Powered off	The power was turned off normally.
Not Powering off	An error occurred, and the power could not be turned off. An error message is displayed with "Not Powering off."

- The showdomainstatus(8) command can be used to check the power of each domain on the system is off.

EXAMPLES

EXAMPLE 1 Turns off power to all domains.

```
XSCF> poweroff -a
DomainIDs to power off:00,01,02,03
Continue? [y|n]:y
00:Powering off
01:Powering off
02:Powering off
03:Powering off

*Note*
This command only issues the instruction to power-off.
The result of the instruction can be checked by the "showlogs power".
```

EXAMPLE 2 Turns off power to domains with domain IDs 0.

```
XSCF> poweroff -d 0
DomainIDs to power off:00
Continue? [y|n]:y
00:Powering off
```

Note

This command only issues the instruction to power-off.

The result of the instruction can be checked by the "showlogs power".

EXAMPLE 3 Forcibly turns off power to domains with domain IDs 0.

```
XSCF> poweroff -f -d 0
```

```
DomainIDs to power off:00
```

The -f option will cause domains to be immediately resets.

```
Continue? [y|n]:y
```

```
00:Powering off
```

Note

This command only issues the instruction to power-off.

The result of the instruction can be checked by the "showlogs power".

EXAMPLE 4 Turns off power to domains with domain IDs 2. Automatically replies with "y" to the prompt.

```
XSCF> poweroff -y -d 2
```

```
DomainIDs to power off:02
```

```
Continue? [y|n]:y
```

```
02:Powering off
```

Note

This command only issues the instruction to power-off.

The result of the instruction can be checked by the "showlogs power".

EXAMPLE 5 Turns off power to domains with domain IDs 2. Automatically replies with "y" without displaying the prompt.

```
XSCF> poweroff -q -y -d 2
```

EXIT STATUS

The following exit values are returned:

0 Successful completion.

>0 An error occurred.

SEE ALSO

poweron(8), **reset(8)**, **showdomainstatus(8)**

poweroff(8)



NAME	poweron - turn on the power to the specified domain
SYNOPSIS	poweron [[-q] -{y n}] [-M] -d <i>domain_id</i> poweron [[-q] -{y n}] [-M] -a poweron -h
DESCRIPTION	The poweron(8) command turns on the power to the specified domain. The command can turn on the power to the specified domain or to all domains.
Privileges	You must have one of the following privileges to run this command: platadm, fieldeng Can run this command for all domains. domainadm, domainmgr Can run this command only for your managed domains. Refer to setprivileges(8) for more information.
OPTIONS	The following options are supported: -a Turns on the power to every domain that has been completely set up. Only users who have the platadm or fieldeng privileges can specify this option. The "domain that has been completely set up" means a domain that has been completely set up with the setdcl(8) and addboard(8) commands. -d <i>domain_id</i> Specifies the ID of the domain to be turned on. <i>domain_id</i> can be 0-23 depending on the system configuration. -h Displays usage statement. When used with other options or operands, an error occurs. -M Displays text by page. This option provides a function that is the same as that of the more command. -n Automatically answers "n" (no) to all prompts. -q Suppresses all messages to stdout, including prompts. -y Automatically answers "y" (yes) to all prompts.
EXTENDED DESCRIPTION	■ When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.

- When the `poweron(8)` command is executed, power-on results for each of the specified domains are displayed in the following format:

Powering on	The power was turned on normally.
Not Powering on	An error occurred, and the power could not be turned on. An error message is displayed with Not Powering on.

- The `showdomainstatus(8)` command can be used to check whether the power of each domain on the system is on.

EXAMPLES

EXAMPLE 1 Turns on power to all domains.

```
XSCF> poweron -a
DomainIDs to power on:00,01,02,03
Continue? [y|n]:y
00:Powering on
01:Powering on
02:Powering on
03:Powering on

*Note*
This command only issues the instruction to power-on.
The result of the instruction can be checked by the "showlogs power".
```

EXAMPLE 2 Turns on power to domains with domain IDs 0.

```
XSCF> poweron -d 0
DomainIDs to power on:00
Continue? [y|n]:y
00:Powering on

*Note*
This command only issues the instruction to power-on.
The result of the instruction can be checked by the "showlogs power".
```

EXAMPLE 3 Turns on power to domains with domain IDs 0. Automatically replies with "y" to the prompt.

```
XSCF> poweron -y -d 0
DomainIDs to power on:00
Continue? [y|n]:y
00:Powering on

*Note*
```

This command only issues the instruction to power-on.
The result of the instruction can be checked by the "showlogs power".
XSCF>

EXAMPLE 4 Turns on power to domains with domain IDs 1. Automatically replies with "y" without displaying the prompt.

XSCF> **poweron -q -y -d 1**

EXIT STATUS The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO **poweroff (8), reset (8), showdomainstatus (8)**

poweron(8)

NAME	prtfriu - display FRUID data on the system and External I/O Expansion Unit												
SYNOPSIS	prtfriu [-c] [-l] [-M] [-x] [<i>container</i>] prtfriu -h												
DESCRIPTION	<p>prtfriu is used to obtain Field Replaceable Unit Identifier (FRUID) data from the system and External I/O Expansion Unit. Its output is a tree structure, echoing the path in the FRU tree to each container. When a container is found, the data from that container is printed in a tree structure as well.</p> <p>prtfriu without any arguments prints the FRU hierarchy and all of the FRUID container data. prtfriu prints to the screen. Output can be redirected to a file.</p> <p>Note – FRU information from the domains is not available using this command.</p>												
Privileges	<p>You must have fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>												
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-c</td><td>Prints only the containers and their data. This option does not print the FRU tree hierarchy.</td></tr><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td>-M</td><td>Displays text by page. This option provides a function that is the same as that of the more command.</td></tr><tr><td>-l</td><td>Prints only the FRU tree hierarchy. This option does not print the container data.</td></tr><tr><td>-x</td><td>Prints in XML format with a system identifier (SYSTEM) of prtfriuereg.dtd.</td></tr></table>	-c	Prints only the containers and their data. This option does not print the FRU tree hierarchy.	-h	Displays usage statement.		When used with other options or operands, an error occurs.	-M	Displays text by page. This option provides a function that is the same as that of the more command.	-l	Prints only the FRU tree hierarchy. This option does not print the container data.	-x	Prints in XML format with a system identifier (SYSTEM) of prtfriuereg.dtd.
-c	Prints only the containers and their data. This option does not print the FRU tree hierarchy.												
-h	Displays usage statement.												
	When used with other options or operands, an error occurs.												
-M	Displays text by page. This option provides a function that is the same as that of the more command.												
-l	Prints only the FRU tree hierarchy. This option does not print the container data.												
-x	Prints in XML format with a system identifier (SYSTEM) of prtfriuereg.dtd.												
OPERANDS	<p>The following operands are supported:</p> <table><tr><td><i>container</i></td><td>The path and name of the particular hardware that holds data.</td></tr></table>	<i>container</i>	The path and name of the particular hardware that holds data.										
<i>container</i>	The path and name of the particular hardware that holds data.												
EXAMPLES	<p>EXAMPLE 1 Displaying FRU Tree Hierarchy</p> <pre>XSCF> prtfriu -l /frutree /frutree/chassis (fru) /frutree/chassis/iou0 /frutree/chassis/iou0/IOU (fru) /frutree/chassis/iou0/IOU/slot3</pre>												

```

/frutree/chassis/iou0/IOU/slot3/LINK (container)
/frutree/chassis/iou0/IOU/slot3/LINK/iox983392.IOX.iob1.PCIX.LINK (fru)
/frutree/chassis/iox983392?Label=IOX@XCX031
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/ps0
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/ps0/A195 (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/ps1
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/ps1/A195 (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/iob1
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/iob1/PCIX (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/iob1/PCIX/LINK
(container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/iob1/PCIX/LINK/
iou0.IOU.slot3.LINK (fru)
/frutree/chassis/MBU_B (container)
/frutree/chassis/MBU_B/CPUM#0/CPUM (container)
/frutree/chassis/MBU_B/CPUM#1/CPUM (container)
/frutree/chassis/MBU_B/MEMB#0 (fru)
/frutree/chassis/MBU_B/CPUM#1/CPUM (container)
/frutree/chassis/MBU_B/MEMB#0 (fru)
/frutree/chassis/MBU_B/MEMB#0/MEMB (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#0/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#1/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#2/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#3/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#4/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#5/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#6/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#7/MEM (container)
/frutree/chassis/MBU_B/MEMB#1 (fru)
/frutree/chassis/MBU_B/MEMB#1/MEMB (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#8/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#9/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#10/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#11/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#12/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#13/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#14/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#15/MEM (container)
/frutree/chassis/XSCFU (container)
/frutree/chassis/OPNL (container)
/frutree/chassis/PSU#0 (fru)
/frutree/chassis/PSU#0/PSU (container)
/frutree/chassis/PSU#2 (fru)
/frutree/chassis/PSU#2/PSU (container)

```

```

/frutree/chassis/iou0/IOU/slot3/LINK (container)
/frutree/chassis/iou0/IOU/slot3/LINK/iox983392.IOX.iob1.PCIX.LINK (fru)
/frutree/chassis/iox983392?Label=IOX@XCX031
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/ps0
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/ps0/A195 (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/ps1
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/ps1/A195 (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/iob1
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/iob1/PCIX (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/iob1/PCIX/LINK
(container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/iob1/PCIX/LINK/
iou0.IOU.slot3.LINK (fru)
/frutree/chassis/MBU_B (container)
/frutree/chassis/MBU_B/CPUM#0/CPUM (container)
/frutree/chassis/MBU_B/CPUM#1/CPUM (container)
/frutree/chassis/MBU_B/MEMB#0 (fru)
/frutree/chassis/MBU_B/CPUM#1/CPUM (container)
/frutree/chassis/MBU_B/MEMB#0 (fru)
/frutree/chassis/MBU_B/MEMB#0/MEMB (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#0/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#1/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#2/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#3/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#4/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#5/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#6/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#7/MEM (container)
/frutree/chassis/MBU_B/MEMB#1 (fru)
/frutree/chassis/MBU_B/MEMB#1/MEMB (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#8/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#9/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#10/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#11/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#12/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#13/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#14/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#15/MEM (container)
/frutree/chassis/XSCFU (container)
/frutree/chassis/OPNL (container)
/frutree/chassis/PSU#0 (fru)
/frutree/chassis/PSU#0/PSU (container)
/frutree/chassis/PSU#2 (fru)
/frutree/chassis/PSU#2/PSU (container)

```

```

/frutree/chassis/IOU#0 (fru)
/frutree/chassis/IOU#0/IOU (container)
/frutree/chassis/IOU#0/IOU/DDCR#0/DDCR (container)
/frutree/chassis/FANBP_C#0 (fru)
/frutree/chassis/FANBP_C#0/FANBP_C (container)

```

EXAMPLE 2 Displaying A list of Containers

```

XSCF> prtfu -lc
/frutree/chassis/iou0/IOU/slot3/LINK (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/ps0/A195 (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/ps1/A195 (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/iob1/PCIX (container)
/frutree/chassis/iox983392?Label=IOX@XCX031/IOX/iob1/PCIX/LINK
(container)
/frutree/chassis/MBU_B (container)
/frutree/chassis/MBU_B/CPUM#0/CPUM (container)
/frutree/chassis/MBU_B/CPUM#1/CPUM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#0/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#1/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#2/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#3/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#4/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#5/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#6/MEM (container)
/frutree/chassis/MBU_B/MEMB#0/MEMB/MEM#7/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#8/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#9/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#10/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#11/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#12/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#13/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#14/MEM (container)
/frutree/chassis/MBU_B/MEMB#1/MEMB/MEM#15/MEM (container)
/frutree/chassis/XSCFU (container)
/frutree/chassis/OPNL (container)
/frutree/chassis/PSU#0/PSU (container)
/frutree/chassis/PSU#2/PSU (container)
/frutree/chassis/IOU#0/IOU (container)
/frutree/chassis/IOU#0/IOU/DDCR#0/DDCR (container)
/frutree/chassis/FANBP_C#0/FANBP_C (container)

```


EXIT STATUS	The following exit values are returned:
	0 Successful completion.
	>0 An error occurred.

SEE ALSO	ioxadm (8)
-----------------	-------------------

NAME	rebootxscf - reset the XSCF								
SYNOPSIS	rebootxscf [[-q] -{y n}] rebootxscf -h								
DESCRIPTION	<p>The <code>rebootxscf(8)</code> command resets the XSCF.</p> <p>The settings configured by using the following commands will be applied to XSCF after you reset XSCF by using the <code>rebootxscf(8)</code> command.</p> <ul style="list-style-type: none">■ <code>applynetwork(8)</code>■ <code>setaltitude(8)</code>■ <code>setdualpowerfeed(8)</code>■ <code>sethttps(8)</code>■ <code>setntp(8)</code>■ <code>setssh(8)</code>■ <code>settelnet(8)</code> <p>In the M8000/M9000 servers, both of the active XSCF and the standby XSCF will be reset.</p>								
Privileges	<p>You must have <code>platadm</code> or <code>fieldeng</code> privilege to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td>-y</td><td>Automatically answers "y" (yes) to all prompts.</td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-n	Automatically answers "n" (no) to all prompts.	-q	Suppresses all messages to stdout, including prompts.	-y	Automatically answers "y" (yes) to all prompts.
-h	Displays usage statement. When used with other options or operands, an error occurs.								
-n	Automatically answers "n" (no) to all prompts.								
-q	Suppresses all messages to stdout, including prompts.								
-y	Automatically answers "y" (yes) to all prompts.								
EXTENDED DESCRIPTION	<ul style="list-style-type: none">■ When the command is executed, a prompt to confirm execution of the command is displayed. Enter "y" to execute the command or "n" to cancel the command.■ The <code>rebootxscf(8)</code> command terminates all connection to XSCF, such as telnet or ssh.■ When you cancel the XSCF reset using the <code>setdate(8)</code> which commands reset XSCF automatically, even if you perform this command, the information that is set is not applied in XSCF.								

- By using the `rebootxscf(8)` command, you can reset XSCF while the domain is in operation. However, if you set up XSCF to serve as the upper NTP server of the domain, time lag may arise between XSCF and the domain. In such a case, adjust the domain time so that XSCF and the domain will be synchronized.

EXAMPLES

EXAMPLE 1 Resets the XSCF.

```
XSCF> rebootxscf
The XSCF will be reset. Continue? [y|n]:y
```

EXAMPLE 2 Resets the XSCF. Automatically replies with "y" to the prompt.

```
XSCF> rebootxscf -y
The XSCF will be reset. Continue? [y|n]:y
```

EXAMPLE 3 Resets the XSCF. Automatically replies with "y" without displaying the prompt.

```
XSCF> rebootxscf -q -y
```

EXAMPLE 4 Cancels the `rebootxscf(8)` command execution that is in progress.

```
XSCF> rebootxscf
The XSCF will be reset. Continue? [y|n]:n
XSCF>
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

`applynetwork(8)`, `setaltitude(8)`, `setdualpowerfeed(8)`, `sethttps(8)`, `setntp(8)`, `setssh(8)`, `settelnets(8)`

NAME	replacefru - replace a field replaceable unit (FRU)
SYNOPSIS	replacefru replacefru -h
DESCRIPTION	<p>The <code>replacefru(8)</code> command replaces an FRU. The command allows the user to select, confirm, and replace the FRU interactively using menus.</p> <p>The following FRUs can be replaced using the <code>replacefru(8)</code> command.</p> <ul style="list-style-type: none">■ CPU/Memory Board unit (CMU)■ I/O unit (IOU)■ FAN unit (FANU)■ Power supply unit (PSU)■ XSCF unit (XSCFU)■ DC-DC converter (DDC_A)
Privileges	<p>You must have <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following option is supported.</p> <p><code>-h</code> Displays usage statement.</p>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	addboard(8) , addfru(8) , deleteboard(8) , deletefru(8) , setupfru(8) , showdcl(8) , showdomainstatus(8) , showfru(8) , showhardconf(8) , testsb(8) , unlockmaintenance(8)

replacefru(8)



NAME	reset - reset the specified domain										
SYNOPSIS	reset [[-q] -{y n}] -d <i>domain_id level</i> reset -h										
DESCRIPTION	<p>Note – Since the <code>reset(8)</code> command forcibly resets the system, this command may cause a failure in a hard disk drive or other components. Use this command only for the purpose of recovery, such as if the Oracle Solaris OS hangs, and for other limited purposes.</p> <p>The <code>reset(8)</code> command resets the specified domain.</p> <p>The following three levels of resetting can be specified:</p> <table><tr><td><code>por</code></td><td>Resets the domain system.</td></tr><tr><td><code>panic</code></td><td>Instructs the Oracle Solaris OS of the domain to generate a panic. The command is ignored if it is issued during power-off or shutdown.</td></tr><tr><td><code>xir</code></td><td>Resets the domain CPU.</td></tr></table>	<code>por</code>	Resets the domain system.	<code>panic</code>	Instructs the Oracle Solaris OS of the domain to generate a panic. The command is ignored if it is issued during power-off or shutdown.	<code>xir</code>	Resets the domain CPU.				
<code>por</code>	Resets the domain system.										
<code>panic</code>	Instructs the Oracle Solaris OS of the domain to generate a panic. The command is ignored if it is issued during power-off or shutdown.										
<code>xir</code>	Resets the domain CPU.										
Privileges	<p>You must have one of the following privileges to run this command:</p> <table><tr><td><code>platadm, fieldeng</code></td><td>Can run this command for all domains.</td></tr><tr><td><code>domainadm, domainmgr</code></td><td>Can run this command only for your managed domains.</td></tr></table> <p>Refer to <code>setprivileges(8)</code> for more information.</p>	<code>platadm, fieldeng</code>	Can run this command for all domains.	<code>domainadm, domainmgr</code>	Can run this command only for your managed domains.						
<code>platadm, fieldeng</code>	Can run this command for all domains.										
<code>domainadm, domainmgr</code>	Can run this command only for your managed domains.										
OPTIONS	<p>The following options are supported:</p> <table><tr><td><code>-d domain_id</code></td><td>Specifies only one ID of the domain to be reset. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr><tr><td><code>-h</code></td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td><code>-n</code></td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td><code>-q</code></td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td><code>-y</code></td><td>Automatically answers "y" (yes) to all prompts.</td></tr></table>	<code>-d domain_id</code>	Specifies only one ID of the domain to be reset. <i>domain_id</i> can be 0–23 depending on the system configuration.	<code>-h</code>	Displays usage statement. When used with other options or operands, an error occurs.	<code>-n</code>	Automatically answers "n" (no) to all prompts.	<code>-q</code>	Suppresses all messages to stdout, including prompts.	<code>-y</code>	Automatically answers "y" (yes) to all prompts.
<code>-d domain_id</code>	Specifies only one ID of the domain to be reset. <i>domain_id</i> can be 0–23 depending on the system configuration.										
<code>-h</code>	Displays usage statement. When used with other options or operands, an error occurs.										
<code>-n</code>	Automatically answers "n" (no) to all prompts.										
<code>-q</code>	Suppresses all messages to stdout, including prompts.										
<code>-y</code>	Automatically answers "y" (yes) to all prompts.										

<div>OPERANDS</div> <div>EXTENDED DESCRIPTION</div> <div>EXAMPLES</div>	<div>The following operand is supported:</div> <div><div><div>level</div><div>Specifies the level of resetting. One of the following can be specified. This operand cannot be omitted.</div></div><div><div>por</div><div>Resets the domain system.</div></div><div><div>panic</div><div>Instructs the Oracle Solaris OS of the domain to generate a panic.</div></div><div><div>xir</div><div>Resets the domain CPU.</div></div></div> <div><div><div>■ When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.</div><div>■ The showdomainstatus(8) command can be used to check whether the domain has been reset.</div><div>■ If the reset(8) command is executed under either of the following conditions, processing is stopped before the Oracle Solaris OS is started:<div><div>■ The Mode switch on the operator panel is set to Service mode</div><div>■ The auto boot function has been disabled by the setdomainmode (8) command</div></div></div></div></div> <div><div><div>EXAMPLE 1 Causes a panic in domain ID 0.</div><div><div>XSCF> reset -d 0 panic</div><div>DomainID to panic:00</div><div>Continue? [y n]:y</div><div>00:Panicked</div></div><div><div>*Note*</div><div>This command only issues the instruction to reset.</div><div>The result of the instruction can be checked by the "showlogs power".</div></div></div><div><div><div>EXAMPLE 2 Resets the CPU in domain ID 0. Automatically answers "y" to all prompts.</div><div><div>XSCF> reset -y -d 0 xir</div><div>DomainID to reset:00</div><div>Continue? [y n]:y</div><div>00:Reset</div></div><div><div>*Note*</div><div>This command only issues the instruction to reset.</div><div>The result of the instruction can be checked by the "showlogs power".</div></div></div></div></div>
---	---

EXAMPLE 3 Resets domain ID 0. Suppresses prompts, and automatically answers "y" to all prompts.

```
XSCF> reset -q -y -d 0 por
```

EXAMPLE 4 Cancels the reset command execution that is in progress.

```
XSCF> reset -d 0 panic
DomainID to panic:00
Continue? [y|n]:n
```

EXIT STATUS The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO `poweroff(8)`, `poweron(8)`, `setdomainmode(8)`, `showdomainstatus(8)`

reset(8)

NAME	resetdateoffset - reset time of domains to match system time
SYNOPSIS	resetdateoffset resetdateoffset -h
DESCRIPTION	<p>The <code>resetdateoffset(8)</code> command resets the time settings on the domains, managed by each domain clock, to match the time setting of the system, which is managed by the XSCF clock.</p> <p>If you change the time setting on a domain, for example by using the <code>date(1M)</code> command, the time of that domain differs from the time of the system. The difference between revised time of the domain and the time of the system is stored on the XSCF, and is retained after domain reboot and after XSCF reset.</p> <p>Execute the <code>resetdateoffset(8)</code> command to realign the time on the domains with the time of the system. After this, the time of domain after rebooting will match the time of the system.</p>
Privileges	<p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following option is supported:</p> <p><code>-h</code> Displays usage statement.</p>
EXTENDED DESCRIPTION	<p>You can execute the <code>resetdateoffset(8)</code> command only when all domains are powered off. To verify that all domains are powered off, execute the <code>showlogs power</code> command and look for the value <code>System Power Off</code>.</p>
EXAMPLES	<p>EXAMPLE 1 Resets the time of the domains to match that of the system.</p> <pre>XSCF> resetdateoffset</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	showdateoffset (8)

resetdateoffset(8)

NAME	restoreconfig - restore the system configuration information previously saved by dumpconfig												
SYNOPSIS	restoreconfig [-v] [-V] [[-q] -{y n}] [-P <i>password</i>] [-s network={yes no}] [-u <i>user</i>] [-p <i>proxy</i>] [-t <i>proxy_type</i>] <i>url</i> restoreconfig -h												
DESCRIPTION	<p>The restoreconfig(8) command restores to the XSCF the system configuration information previously saved using the dumpconfig(8) command.</p> <p>The command verifies the integrity of the configuration file, looks for network information, and detects whether the configuration file version and system class are compatible.</p>												
Privileges	<p>You must have platadm privileges to run this command. Reserved user accounts default and admin can also run this command.</p> <p>Refer to setprivileges(8) for more information.</p>												
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td>-P <i>password</i></td><td>The password to decode an encrypted file. The command prompts for the password if a password is not provided on the command line.</td></tr><tr><td>-p <i>proxy</i></td><td>Specifies the proxy server to be used for transfers. The default transfer type is http, unless modified using the -t <i>proxy_type</i> option. The value for proxy must be in the format <i>servername:port</i>. (Refer to Example 3.)</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td>-s network={yes no}</td><td>force/prevent restoration of the network configuration. If network=yes, the network configuration data is restored. If network=no, the network configuration data is not restored. If this option is not specified, the serial number of the target system is compared with the serial number of the configuration file and if the numbers match, the configuration data is restored.</td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-n	Automatically answers "n" (no) to all prompts.	-P <i>password</i>	The password to decode an encrypted file. The command prompts for the password if a password is not provided on the command line.	-p <i>proxy</i>	Specifies the proxy server to be used for transfers. The default transfer type is http, unless modified using the -t <i>proxy_type</i> option. The value for proxy must be in the format <i>servername:port</i> . (Refer to Example 3.)	-q	Suppresses all messages to stdout, including prompts.	-s network={yes no}	force/prevent restoration of the network configuration. If network=yes, the network configuration data is restored. If network=no, the network configuration data is not restored. If this option is not specified, the serial number of the target system is compared with the serial number of the configuration file and if the numbers match, the configuration data is restored.
-h	Displays usage statement. When used with other options or operands, an error occurs.												
-n	Automatically answers "n" (no) to all prompts.												
-P <i>password</i>	The password to decode an encrypted file. The command prompts for the password if a password is not provided on the command line.												
-p <i>proxy</i>	Specifies the proxy server to be used for transfers. The default transfer type is http, unless modified using the -t <i>proxy_type</i> option. The value for proxy must be in the format <i>servername:port</i> . (Refer to Example 3.)												
-q	Suppresses all messages to stdout, including prompts.												
-s network={yes no}	force/prevent restoration of the network configuration. If network=yes, the network configuration data is restored. If network=no, the network configuration data is not restored. If this option is not specified, the serial number of the target system is compared with the serial number of the configuration file and if the numbers match, the configuration data is restored.												

<code>-t proxy_type</code>	Used with the <code>-p</code> option to specify the type of proxy. Possible values for <i>proxy_type</i> are: <code>http</code> , <code>socks4</code> , and <code>socks5</code> . The default value is <code>http</code> .
<code>-u user</code>	Specifies the user name when logging in to a remote ftp or http server that requires authentication. You are prompted for a password.
<code>-v</code>	Displays verbose output. This may be helpful when diagnosing server problems.
<code>-V</code>	Displays details of network activity. This may be helpful when diagnosing network or server problems.
<code>-y</code>	Automatically answers "y" (yes) to all prompts.

OPERANDS

The following operand is supported:

<i>url</i>	Specifies the URL of the firmware image to download. Supported formats for this value include the following: <code>http://server[:port]/path/file</code> <code>https://server[:port]/path/file</code> <code>ftp://server[:port]/path/file</code> <code>file:///media/usb_msd/path/file</code>
------------	---

EXTENDED DESCRIPTION

Basic identification information is included in plain text at the top of the configuration file. You can use any text viewer to determine information such as:

- which system created the backup configuration
- when the backup was created
- if the backup is encrypted

All the domains must be turned off before this command can be used.

`restoreconfig(8)` downloads and validates the configuration file to the XSCF, then resets the XSCF with the configuration information restored. The system then halts the XSCF unit (both XSCF units on the M8000/M9000 server). At this point, verify that the XSCF unit(s) have been halted, cut power to the system, wait at least 30 seconds, then restore power.

Note that the configuration data file can be restored only to the same class of server; that is, a configuration file created by `dumpconfig(8)` on an M5000 server can be restored to another M5000 server, but it cannot be restored to an M3000 or M8000 server.

EXAMPLES

EXAMPLE 1 Restoring the Configuration using FTP

```

XSCF> restoreconfig -V -u manilla 129.145.155.156:8080 \
ftp://10.7.79.18/sollgell/proxytest-ftp.cfg
transfer from '/tmp/dumpconfig.EvY1Yf' to 'ftp://10.7.79.18/sollgell/
proxytest-ftp.cfg'
Password:
* About to connect() to 129.145.155.166 port 8080
*   Trying 129.145.155.166... * connected
* Connected to 129.145.155.166 (129.145.155.166) port 8080
* Proxy auth using (nil) with user ''
* Server auth using Basic with user 'minilla'
> GET ftp://10.7.79.18/sollgell/proxytest-ftp.cfg HTTP/1.1
Authorization: Basic bHdhbmc6bHdhbmc=
User-Agent: restoreconfig
Host: 10.7.79.18:21
Pragma: no-cache
Accept: */*
< HTTP/1.1 200 OK
< Server: Sun-Java-System-Web-Proxy-Server/4.0
< Date: Thu, 07 Aug 2008 18:01:00 GMT
< Proxy-agent: Sun-Java-System-Web-Proxy-Server/4.0
< Via: 1.1 proxy-proxy
< Transfer-encoding: chunked
* Connection #0 to host 129.145.155.166 left intact
* Closing connection #0
Configuration backup created on Mon Aug  4 12:58:19 2008
  from system 'M3000' with serial number 'IKS08220xx', version '19830000'
*** You will need to power-cycle the entire system after this operation
is completed
*** Do you want to restore this configuration to your system? [y|n]: y
requesting XSCF reboot to perform restore ... requested
Connection to ghidorah.com closed by foreign host.

```

EXAMPLE 2 Restoring the Configuration Using http

```

XSCF> restoreconfig -V -p 129.145.155.166:8080 \
http://10.7.79.18/sollgell/proxytest.cfg
transfer from '/scf/firmtmp/hcp/config/config_file.bin' to
'http://10.7.79.18/sollgell/proxytest.cfg'
* About to connect() to 129.145.155.166 port 8080
*   Trying 129.145.155.166... * connected
* Connected to 129.145.155.166 (129.145.155.166) port 8080
GET http://10.7.79.18/sollgell/proxytest.cfg HTTP/1.1
User-Agent: restoreconfig
Host: 10.7.79.18
Pragma: no-cache

```

```

Accept: */*
< HTTP/1.1 200 OK
< Content-length: 24603
< Content-type: text/plain
< Date: Thu, 07 Aug 2008 17:07:43 GMT
< Server: Apache/1.3.36 (Unix) mod_perl/1.29 mod_ssl/2.8.27 OpenSSL/
0.9.7d
< Last-modified: Mon, 04 Aug 2008 20:01:51 GMT
< Etag: "4fa2a-601b-4897602f"
< Accept-ranges: bytes
< Via: 1.1 proxy-proxy
< Proxy-agent: Sun-Java-System-Web-Proxy-Server/4.0
* Connection #0 to host 129.145.155.166 left intact
* Closing connection #0
Configuration backup created on Mon Aug  4 12:58:19 2008
  from system 'M3000' with serial number 'IKS08220xx', version '19830000'
*** You will need to power-cycle the entire system after this operation
is completed
*** Do you want to restore this configuration to your system? [y|n]: y
requesting XSCF reboot to perform restore ... requested
Connection to ghidorah.com closed by foreign host.

```

EXAMPLE 3 Restoring the Configuration Using https

```

XSCF> restoreconfig -v -V \
https://10.7.79.18/sollgell/proxytest.cfg
obtaining lock ... done
initiating file transfer from 'https://10.7.79.18/sollgell/proxytest.cfg'
... transfer from
'/scf/firmtmp/hcp/config/config_file.bin' to 'https://10.7.79.18/
sollgell/proxytest.cfg'
* About to connect() to 10.7.79.18 port 443
*   Trying 10.7.79.18... * connected
* Connected to 10.7.79.18 (10.7.79.18) port 443
* error setting certificate verify locations, continuing anyway:
*   CAfile: /home/ares/cross/fje/pwrqcc3/target_root/usr/share/ssl/certs/
ca-bundle.crt
*   Cpath: none
* SSL connection using EDH-RSA-DES-CBC3-SHA
* Server certificate:
*       subject:
/C=US/ST=California/L=SanDiego/O=toho/OU=QT/CN=10.7.79.18/
emailAddress=minilla.zilla@toho.com
*       start date: 2008-07-22 18:32:49 GMT
*       expire date: 2009-07-22 18:32:49 GMT
*       common name: 10.7.79.18 (matched)

```



```

*      issuer:
/C=US/ST=California/L=SanDiego/O=toho/OU=QT/CN=Lwang/
emailAddress=minilla.zilla@toho.com
* SSL certificate verify result: error number 1 (20), continuing anyway.
> GET /sollgell/proxytest.cfg HTTP/1.1
User-Agent: restoreconfig
Host: 10.7.79.18
Pragma: no-cache
Accept: */*
< HTTP/1.1 200 OK
< Date: Tue, 12 Aug 2008 22:02:12 GMT
< Server: Apache/1.3.36 (Unix) mod_perl/1.29 mod_ssl/2.8.27 OpenSSL/
0.9.7d
< Last-Modified: Mon, 04 Aug 2008 20:01:51 GMT
< ETag: "4fa2a-601b-4897602f"
< Accept-Ranges: bytes
< Content-Length: 24603
< Content-Type: text/plain
* Connection #0 to host 10.7.79.18 left intact
* Closing connection #0
done
file decoding done.
Configuration backup created on Mon Aug  4 12:58:19 2008
  from system 'M3000' with serial number 'IKS08220xx', version '19830000'
validating backup configuration data
*** You will need to power-cycle the entire system after this operation
is completed
*** Do you want to restore this configuration to your system? [y|n]: y
requesting XSCF reboot to perform restore ... requested
Connection to ghidorah.com closed by foreign host.

```

EXAMPLE 4 Restoring the Configuration Using USB

```

XSCF> restoreconfig -V -p 129.145.155.166:8080 \
file:///media/usb_msd/proxytest.cfg
transfer from '/scf/firmtmp/hcp/config/config_file.bin' to 'file:///
media/usb_msd/proxytest.cfg'
Configuration backup created on Mon Aug  4 14:38:27 2008
  from system 'M3000' with serial number 'IKS08220xx', version '19830000'
*** You will need to power-cycle the entire system after this operation
is completed
*** Do you want to restore this configuration to your system? [y|n]: y
requesting XSCF reboot to perform restore ... requested
Connection to ghidorah.com closed by foreign host.

```

EXAMPLE 5 Restoring An Encrypted Configuration

```

XSCF> restoreconfig -v -V -P encryption \
http://10.7.79.18/sollgell/proxytest.cfg
obtaining lock ... done
initiating file transfer from 'http://10.7.79.18/sollgell/proxytest.cfg'
... transfer from '/scf/firmtmp/hcp/config/config_file.bin' to
'http://10.7.79.18/sollgell/proxytest.cfg'
* About to connect() to 10.7.79.18 port 80
*   Trying 10.7.79.18... * connected
* Connected to 10.7.79.18 (10.7.79.18) port 80
GET /sollgell/proxytest.cfg HTTP/1.1
User-Agent: restoreconfig
Host: 10.7.79.18
Pragma: no-cache
Accept: */*
< HTTP/1.1 200 OK
< Date: Wed, 13 Aug 2008 23:29:42 GMT
< Server: Apache/1.3.36 (Unix) mod_perl/1.29 mod_ssl/2.8.27
OpenSSL/0.9.7d
< Last-Modified: Wed, 13 Aug 2008 23:25:16 GMT
< ETag: "4fa55-501b-48a36d5c"
< Accept-Ranges: bytes
< Content-Length: 20507
< Content-Type: text/plain
* Connection #0 to host 10.7.79.18 left intact
* Closing connection #0
done
file decoding done.
Configuration backup created on Wed Aug 13 16:21:01 2008
  from system 'M3000' with serial number 'IKS08220xx', version
'19830000'
validating backup configuration data
File decryption completed
*** You will need to power-cycle the entire system after this operation
is completed
*** Do you want to restore this configuration to your system? [y|n]: y
requesting XSCF reboot to perform restore ... requested
Connection to ghidorah.com closed by foreign host.

```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

NAME	restoredefaults - restore factory settings of the server or XSCF unit														
SYNOPSIS	restoredefaults -c <i>range</i> restoredefaults -h														
DESCRIPTION	<p>The <code>restoredefaults(8)</code> command restores factory settings and error information on either the server or the XSCF unit.</p> <p>To execute this command, connect to the XSCF over a serial connection.</p> <p>Used with the -c option, <i>range</i> is either <i>factory</i>, which restores settings and information to the server, or <i>xscfu</i>, which does so only to the specified XSCF unit.</p>														
Privileges	<p>You must have <code>platadm</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>														
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-c <i>range</i></td><td>Specifies the target of restoration. In <i>range</i>, one of the following values can be specified:</td><td></td></tr><tr><td>factory</td><td>Restores the server (Operator panel and the XSCF unit) to factory settings. Clears information set by the user and error information of the Field Replaceable Unit (FRU).</td><td>Cannot be specified in the standby XSCF of the M8000/M9000 server.</td></tr><tr><td>xscfu</td><td>Restores the XSCF unit to factory settings. When the active XSCF of an M8000/M9000 server is specified, both the active and standby XSCF are restored. When the standby XSCF is specified, only the standby XSCF is restored. In both cases, user settings and error information of the Field Replaceable Unit (FRU) are cleared.</td><td></td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td><td></td></tr></table>			-c <i>range</i>	Specifies the target of restoration. In <i>range</i> , one of the following values can be specified:		factory	Restores the server (Operator panel and the XSCF unit) to factory settings. Clears information set by the user and error information of the Field Replaceable Unit (FRU).	Cannot be specified in the standby XSCF of the M8000/M9000 server.	xscfu	Restores the XSCF unit to factory settings. When the active XSCF of an M8000/M9000 server is specified, both the active and standby XSCF are restored. When the standby XSCF is specified, only the standby XSCF is restored. In both cases, user settings and error information of the Field Replaceable Unit (FRU) are cleared.		-h	Displays usage statement. When used with other options or operands, an error occurs.	
-c <i>range</i>	Specifies the target of restoration. In <i>range</i> , one of the following values can be specified:														
factory	Restores the server (Operator panel and the XSCF unit) to factory settings. Clears information set by the user and error information of the Field Replaceable Unit (FRU).	Cannot be specified in the standby XSCF of the M8000/M9000 server.													
xscfu	Restores the XSCF unit to factory settings. When the active XSCF of an M8000/M9000 server is specified, both the active and standby XSCF are restored. When the standby XSCF is specified, only the standby XSCF is restored. In both cases, user settings and error information of the Field Replaceable Unit (FRU) are cleared.														
-h	Displays usage statement. When used with other options or operands, an error occurs.														
EXTENDED DESCRIPTION	<ul style="list-style-type: none">■ After the <code>restoredefaults(8)</code> command has been executed, the restored XSCF unit will be stopped. To restart it, power the server off, then on.■ You can execute the <code>restoredefaults(8)</code> command only when the all domains are powered off. To verify that all domains are powered off, execute the <code>showlogs power</code> command and look for the value <code>System Power Off</code>.														

- If you specify "-c xscfu," information in the operator panel remains. Therefore, when you power the server off then on, the information saved in the operator panel is read and the XSCF unit is restored to its factory state. Use this operation if you need to move the restored XSCF unit to another server.

EXAMPLES

EXAMPLE 1 Restores the XSCF unit.

```
XSCF> restoredefaults -c xscfu
```

WARNING:

If this system does not have OPNL, this command will set all the user settable XSCF configuration parameters to their default value as they were set when the system was shipped out.
Furthermore, this command will delete all logs on both XSCFUs.
Check the man page of this command before you run it.

```
Continue?[yes/no] (default no):yes
```

You must check the following points.

1. Have the ability to powercycle the system.
2. Have access to the serial console and hold the serial console of the XSCFU to confirm the completion of the command.

If you answer "yes" this command will HALT the XSCFU when it compltetes.
You will need to powercycle the system after the XSCF BOOT STOP.

```
Do you really want to continue?
```

```
Continue?[yes/no] (default no):yes
```

The initialization of XSCFU will be started.

```
XSCFU : all data clear
```

```
OPNL : not clear
```

XSCF will be automatically rebooted. Afterwards, XSCFU will be initialized.

```
Continue?[yes/no] (default no):yes
```

The NVRAM setting of XSCFU#0 was completed.

XSCF shutdown request was completed.

```
<snip>...XSCF reboot..  
<snip>
```

```
***** WARNING *****
```

XSCF initialization terminate for XSCF data clear.

```
execute "setdefaults xscf" (AUTO)
```

```
setdefaults : XSCF clear : start
```

```
setdefaults : XSCF clear : DBS start
```

```

setdefaults : XSCF clear : wait 20s for DBS initialization
setdefaults : XSCF clear : common database clear complete
setdefaults : XSCF clear : /bin/rm /var/log/lastlog >/dev/null 2>&1
setdefaults : XSCF clear : /bin/rm /var/log/boot.log >/dev/null 2>&1
...
setdefaults : XSCF clear : /bin/rm /hcpcommon/tmp/panel_up_to_date_fail
>/dev/null 2>&1
setdefaults : XSCF clear : log data clear complete
setdefaults : XSCF clear : NVRAM(PAGE#0) clear complete
...
setdefaults : XSCF clear : NVRAM(PAGE#7) clear complete
setdefaults : XSCF clear : NVRAM reset complete
...
setdefaults : XSCF clear : unmount filesystem start
dbs[282]: NOTICE: received signal: 15
setdefaults : XSCF clear : unmount /hcp0/linux
...
setdefaults : XSCF clear : unmount /hcpcommon/firmtmp -- complete
setdefaults : XSCF clear : unmount filesystem complete
setdefaults : XSCF clear : end
setdefaults : complete

```

Please turn off the breaker after XSCF halt.

The system is going down NOW !!

Please stand by while rebooting the system.

Restarting system.

XSCF uboot 01950000 (Apr 15 2007 - 11:08:18)

XSCF uboot 01950000 (Apr 15 2007 - 11:08:18)

SCF board boot factor = a040

DDR Real size: 512 MB

DDR: 480 MB

XSCF BOOT STOP (recover by NFB-OFF/ON)

EXAMPLE 2 Restores the server.

```
XSCF> restoredefaults -c factory
```

WARNING:

If this system does not have OPNL, this command will set all the user

settable XSCF configuration parameters to their default value as they were set when the system was shipped out.
Furthermore, this command will delete all logs on both XSCFUs.
Check the man page of this command before you run it.

Continue?[yes/no](default no):**yes**

You must check the following points.

1. Have the ability to powercycle the system.
2. Have access to the serial console and hold the serial console of the XSCFU to confirm the completion of the command.

If you answer "yes" this command will HALT the XSCFU when it compltetes.
You will need to powercycle the system after the XSCF BOOT STOP.

Do you really want to continue?

Continue?[yes/no](default no):**yes**

The initialization of XSCFU will be started.

XSCFU : all data clear

OPNL : all data clear (exclude SYSTEM ID data)

XSCF will be automatically rebooted. Afterwards, XSCFU will be initialized.

Continue?[yes/no](default no):**yes**

The NVRAM setting of XSCFU#0 was completed.

XSCF shutdown request was completed.

<snip>...XSCF reboot..<snip>

***** WARNING *****

XSCF initialization terminate for XSCF/OPNL data clear.

execute "setdefaults factory" (AUTO)

setdefaults : FACTORY mode clear : start

setdefaults : FACTORY mode clear : DBS start

setdefaults : FACTORY mode clear : wait 20s for DBS initialization

initialize OPNL SEEPROM 1/6 -- complete

...

initialize OPNL SEEPROM 6/6 -- complete

setdefaults : FACTORY mode clear : OPNL reset complete

setdefaults : FACTORY mode clear : restore SYSTEM-ID data complete

setdefaults : FACTORY mode clear : /bin/rm /var/log/lastlog >/dev/null
2>&1

setdefaults : FACTORY mode clear : /bin/rm /var/log/boot.log >/dev/null
2>&1

```

...
setdefaults : FACTORY mode clear : /bin/rm /hcpcommon/tmp/
panel_up_to_date_fail >/dev...
setdefaults : FACTORY mode clear : log data clear complete
setdefaults : FACTORY mode clear : NVRAM(PAGE#0) clear complete
...
setdefaults : FACTORY mode clear : NVRAM(PAGE#7) clear complete
setdefaults : FACTORY mode clear : NVRAM reset complete
...
setdefaults : FACTORY mode clear : unmount filesystem start
dbs[283]: NOTICE: received signal: 15
setdefaults : FACTORY mode clear : unmount /hcp0/linux
...
setdefaults : FACTORY mode clear : unmount /hcpcommon/firmtmp --
complete
setdefaults : FACTORY mode clear : unmount filesystem complete
Please stand by while rebooting the system.
Restarting system.
XSCF uboot 01950000 (Apr 15 2007 - 11:08:18)

XSCF uboot 01950000 (Apr 15 2007 - 11:08:18)

SCF board boot factor = 4040
DDR Real size: 512 MB
DDR: 480 MB

XSCF BOOT STOP (recover by NFB-OFF/ON)

```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

restoredefaults(8)

NAME	sendbreak - send a break signal to the specified domain										
SYNOPSIS	sendbreak -d <i>domain_id</i> sendbreak [[-q] -{y n}] -d <i>domain_id</i> sendbreak -h										
DESCRIPTION	<p>The sendbreak(8) command sends a break signal to the specified domain.</p> <p>When a break signal is sent from the domain console to the Oracle Solaris OS of the domain, control is transferred from the Oracle Solaris OS to OpenBoot PROM and the OpenBoot PROM prompt "ok" is displayed.</p> <p>Note – sendbreak(8) command will not work when the secure mode is set to 'on' while the mode switch on the operator panel is set to "Locked". Refer to the setdomainmode(8) for more information.</p>										
Privileges	<p>You must have one of the following privileges to run this command:</p> <table><tr><td>platadm</td><td>Can run this command for all domains.</td></tr><tr><td>domainadm</td><td>Can run this command only for your managed domains.</td></tr></table> <p>Refer to setprivileges(8) for more information.</p>	platadm	Can run this command for all domains.	domainadm	Can run this command only for your managed domains.						
platadm	Can run this command for all domains.										
domainadm	Can run this command only for your managed domains.										
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-d <i>domain_id</i></td><td>Specifies only one ID of the domain to which to send the break signal. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td>-y</td><td>Automatically answers "y" (yes) to all prompts.</td></tr></table>	-d <i>domain_id</i>	Specifies only one ID of the domain to which to send the break signal. <i>domain_id</i> can be 0–23 depending on the system configuration.	-h	Displays usage statement. When used with other options or operands, an error occurs.	-n	Automatically answers "n" (no) to all prompts.	-q	Suppresses all messages to stdout, including prompts.	-y	Automatically answers "y" (yes) to all prompts.
-d <i>domain_id</i>	Specifies only one ID of the domain to which to send the break signal. <i>domain_id</i> can be 0–23 depending on the system configuration.										
-h	Displays usage statement. When used with other options or operands, an error occurs.										
-n	Automatically answers "n" (no) to all prompts.										
-q	Suppresses all messages to stdout, including prompts.										
-y	Automatically answers "y" (yes) to all prompts.										
EXIT STATUS	<p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>>0</td><td>An error occurred.</td></tr></table>	0	Successful completion.	>0	An error occurred.						
0	Successful completion.										
>0	An error occurred.										
SEE ALSO	console (8), showconsolepath (8)										

sendbreak(8)



NAME	setad - configure Active Directory
SYNOPSIS	<p>setad enable disable</p> <p>setad loadcert [[-q] -{y n}] [-i n] [-u username] [-p proxy [-t proxy_type]] URI</p> <p>setad loadcert [[-q] -{y n}] [-i n] console</p> <p>setad rmcert [[-q] -{y n}] [-i n]</p> <p>setad group administrator -i n name [groupname]</p> <p>setad group operator -i n name [groupname]</p> <p>setad group custom -i n name [groupname]</p> <p>setad group custom -i n roles [privileges]</p> <p>setad userdomain -i [ndomainname]</p> <p>setad defaultrole [privileges]</p> <p>setad timeout seconds</p> <p>setad server [-i n] [ipaddr [:port]]</p> <p>setad logdetail none high medium low trace</p> <p>setad log [[-q] -{y n}] clear</p> <p>setad dnslocatormode expsearchmode strictcertmode enable disable</p> <p>setad dnslocatorquery -i n [service]</p> <p>setad default [[-q] -{y n}]</p> <p>setad -h</p>
DESCRIPTION	<p>setad(8) configures Active Directory. To simply enable or disable Active Directory, execute the command with only those operands. To enable or disable an Active Directory mode, such as dnslocatormode, specify the mode along with enable or disable.</p> <p>To clear or unset a property, issue a setad command with no value for the operand. For example, <code>setad group custom -i 1 name</code> clears the name property from custom group 1. If a property is not set, it is displayed with no value.</p> <p>Note – If you are an Active Directory or LDAP/SSL user, do not upload a public key. If one has already been uploaded, use the following command to delete it: XSCF> setssh -c delpubkey -a -u proxyuser</p>
Privileges	You must have useradm privileges to run this command.

	Refer to <code>setprivileges(8)</code> for more information.
OPTIONS	<p>The following options are supported:</p> <ul style="list-style-type: none"> <code>-h</code> Displays usage statement. When used with other options or operands, an error occurs. <code>-i n</code> Sets an index marker, value 1 - 5. <code>-n</code> Automatically answers "n" (no) to all prompts. <code>-p</code> Specifies the proxy server to be used for transfers. The default transfer type is <code>http</code>, unless modified using the <code>-t proxy_type</code> option. The value for proxy must be in the format <i>servername:port</i>. See EXAMPLE 8. <code>-q</code> Suppresses all messages to stdout, including prompts. <code>-t</code> Use with the <code>-p</code> option to specify proxy type as <code>http</code>, <code>socks4</code>, or <code>socks5</code>. The default is <code>http</code>. <code>-u</code> Specifies the user name when logging in to a remote ftp or http server that requires authentication. Prompts for a password. See EXAMPLE 9. <code>-y</code> Automatically answers "y" (yes) to all prompts.
OPERANDS	<p>The following operands are supported:</p> <ul style="list-style-type: none"> <code>enable disable</code> When used with no other operands, enable or disable the Active Directory feature. <code>loadcert</code> <p><code>loadcert console</code> prompts for certificate information to be entered at the console. Use this command to paste certificate information copied from a file. Terminate input with CTRL-D.</p> <p><code>loadcert URI</code> loads a certificate file for the Active Directory server. Supported formats for <i>URI</i> are:</p> <p><code>http://server[:port]/path/file</code></p> <p><code>https://server[:port]/path/file</code></p> <p><code>ftp://server[:port]/path/file</code></p> <p><code>file:///media/usb_msd/path/file</code></p> <code>rmcert</code> Delete certificate file for the Active Directory server. <code>strictcertmode</code> must be in the disabled state for a certificate to be removed.

group administrator	Assign group name for up to five specified administrator groups. The administrator group has platadm, useradm, and auditadm privileges and you cannot change that.
group operator	Assign group name for up to five specified operator groups. The operator group has platop and auditop privileges and you cannot change that.
group custom	Assign group name and privileges for up to five groups.
userdomain	<p>Configure the specified user domain. A user domain can be configured explicitly through the setad userdomain command on XSCF, or entered at the login prompt using the form, <i>user@domain</i>.</p> <ul style="list-style-type: none"> • If a user domain is specified at the login prompt – for example, login: ima.admin@dc01.example.com – that user domain is used for this login attempt. Any pre-configured user domains (as displayed by showad userdomain) are ignored. • If a user domain is not specified at the login prompt – for example, login: ima.admin – XSCF checks each of the pre-configured user domains, in turn, to authenticate the user. <p>See EXAMPLE 6, below, for important information.</p>
defaultrole	Configure default privileges. If defaultrole is configured, users have privileges as specified by defaultrole after authentication; user group membership is not checked. If defaultrole is not configured, users' privileges will be learned from Active Directory based on group membership.
timeout	Configure transaction timeout, in seconds. <i>seconds</i> can be 1 to 20. The default is 4. If the specified timeout is too brief for the configuration, the login process or retrieval of user privilege settings could fail.
server	Configure the primary and up to five alternate Active Directory servers. To use a host name, DNS must be enabled. An IP address can be specified with port number; otherwise, the default port is used.

group administrator	Assign group name for up to five specified administrator groups. The administrator group has platadm, useradm, and auditadm privileges and you cannot change that.
group operator	Assign group name for up to five specified operator groups. The operator group has platop and auditop privileges and you cannot change that.
group custom	Assign group name and privileges for up to five groups.
userdomain	<p>Configure the specified user domain. A user domain can be configured explicitly through the setad userdomain command on XSCF, or entered at the login prompt using the form, <i>user@domain</i>.</p> <ul style="list-style-type: none"> • If a user domain is specified at the login prompt – for example, login: ima.admin@dc01.example.com – that user domain is used for this login attempt. Any pre-configured user domains (as displayed by showad userdomain) are ignored. • If a user domain is not specified at the login prompt – for example, login: ima.admin – XSCF checks each of the pre-configured user domains, in turn, to authenticate the user. <p>See EXAMPLE 6, below, for important information.</p>
defaultrole	Configure default privileges. If defaultrole is configured, users have privileges as specified by defaultrole after authentication; user group membership is not checked. If defaultrole is not configured, users' privileges will be learned from Active Directory based on group membership.
timeout	Configure transaction timeout, in seconds. <i>seconds</i> can be 1 to 20. The default is 4. If the specified timeout is too brief for the configuration, the login process or retrieval of user privilege settings could fail.
server	Configure the primary and up to five alternate Active Directory servers. To use a host name, DNS must be enabled. An IP address can be specified with port number; otherwise, the default port is used.

logdetail	<p>Enable logging of Active Directory authentication and authorization diagnostic messages at the specified detail level. This log is for use in troubleshooting and is cleared on SP reboot. Level can be one of the following:</p> <table> <tr> <td>none</td><td>Do not log diagnostic messages. Use this setting during normal system operation</td></tr> <tr> <td>high</td><td>Log only high-severity diagnostic messages</td></tr> <tr> <td>medium</td><td>Log only high-severity and medium-severity diagnostic messages</td></tr> <tr> <td>low</td><td>Log high-severity, medium-severity, and informational diagnostic messages</td></tr> <tr> <td>trace</td><td>Log high-severity, medium-severity, informational, and trace-level diagnostic messages</td></tr> </table>	none	Do not log diagnostic messages. Use this setting during normal system operation	high	Log only high-severity diagnostic messages	medium	Log only high-severity and medium-severity diagnostic messages	low	Log high-severity, medium-severity, and informational diagnostic messages	trace	Log high-severity, medium-severity, informational, and trace-level diagnostic messages
none	Do not log diagnostic messages. Use this setting during normal system operation										
high	Log only high-severity diagnostic messages										
medium	Log only high-severity and medium-severity diagnostic messages										
low	Log high-severity, medium-severity, and informational diagnostic messages										
trace	Log high-severity, medium-severity, informational, and trace-level diagnostic messages										
log <i>options</i> clear	Clear the log file of Active Directory authentication and authorization diagnostic messages.										
dnslocatormode	Enable or disable DNS locator mode. This mode is disabled by default. If enabled, XSCF queries a DNS server to learn the Active Directory server to use for user authentication.										
expsearchmode	Enable or disable expanded search mode. The default Active Directory functionality is intentionally restrictive to ensure proper security. Search criteria can be expanded to accommodate specific customer environments. The expanded search mode is disabled by default, which means the UserPrincipalName (UPN) is expected to have a fully qualified domain name suffix. When expanded search mode is enabled, more searches are attempted if the more specific UPN search does not immediately succeed.										

strictcertmode	Enable or disable strictcertmode mode. This mode is disabled by default; the channel is secure, but limited validation of the certificate is performed. If strictcertmode is enabled, the server's certificate must have already been uploaded to the server so that the certificate signatures can be validated when the server certificate is presented. Data is always protected, even if strictcertmode is disabled. Strictcertmode applies to primary and alternate servers alike.
dnslocatorquery	Configure the DNS locator query. DNS and DNS Locator Mode must be enabled for DNS Locator Queries to work. The DNS Locator service query identifies the named DNS service. See EXAMPLES, below, for important information.
default	Reset Active Directory settings to factory default.

EXAMPLES

EXAMPLE 1 Configures the Active Directory primary server, specifying a port other than the default.

```
XSCF> setad server 10.1.12.250:4040
```

EXAMPLE 2 Sets name for administrator group 3.

```
XSCF> setad group administrator -i 3 name CN=spSuperAdmin, \
OU=Groups,DC=Sales,DC=aCompany,DC=com
```

EXAMPLE 3 Sets name for custom group 2.

```
XSCF> setad group custom -i 2 name CN=spLimitedAdmin, \
OU=Groups,DC=Sales,DC=aCompany,DC=com
```

EXAMPLE 4 Sets roles for custom group 2.

```
XSCF> setad group custom -i 2 roles auditadm,platop
```

EXAMPLE 5 Loads certificate information for Alternate Server 4 from the console.

```
XSCF> setad loadcert -i 4 console
```

Warning: About to load certificate for Alternate Server 4:

. Continue? [y|n]: **y**

Please enter the certificate:

```
-----BEGIN CERTIFICATE-----
```

```
MIIEtjCCAzagAwIBAgIBADANBgkqhkiG9w0BAQQFADB8MQswCQYDVQQGEwJVUzET
MBEGA1UECBMKQ2FsaWZvcml5TESMBAGA1UEBxMJU2FuIERpZWdvMRkwFwYDVQK
ExBtW4gTW1jcm9zeXN0ZW1zMURUwEwYDVQQLExwTeXN0ZW0gr3JvdXAxEjAQBGNV
...
```



```
-----END CERTIFICATE-----
```

```
CTRL-D
```

```
XSCF>
```

EXAMPLE 6 Configures user domain 2. <USERNAME> is a template that must be entered exactly as shown. During authentication the user's login name replaces <USERNAME>. userdomain can take the form of UPN or Distinguished Name (DN).

```
XSCF> setad userdomain -i 2 '<USERNAME>@yoshi.example.aCompany.com'
```

EXAMPLE 7 Loads a server certificate for Active Directory using the specified URI.

```
XSCF> setad loadcert http://domain_2/UID_2333/testcert
```

EXAMPLE 8 Loads a server certificate for Active Directory using an http Proxy Server with port 8080 .

```
XSCF> setad loadcert -p webproxy.aCompany.com:8080 \  
http://domain_2/UID_2333/testcert
```

EXAMPLE 9 Loads a server certificate for Active Directory using a username and password.

```
XSCF> setad loadcert -u yoshi \  
http://domain_2/UID_2333/testcert
```

EXAMPLE 10 Removes the certificate for alternate server 3.

```
XSCF> setad rmcert -i 3
```

EXAMPLE 11 Sets logging of high-severity diagnostic messages.

```
XSCF> setad logdetail high
```

EXAMPLE 12 Clears diagnostic messages from the log file, answering Yes to all prompts.

```
XSCF> setad log -y clear
```

EXAMPLE 13 Enables strictcertmode.

```
XSCF> setad strictcertmode enable
```

EXAMPLE 14 Configures the dnslocatorquery configuration. *service* represents the DNS query to be performed. The port ID is generally part of the record, but you can override it by using the format <PORT:portnumber>. Also, named services specific for the domain being authenticated can be specified by using the <DOMAIN> substitution marker.

```
XSCF> setad dnslocatorquery -i 2 \  
'_ldap._tcp.gc._msdcs.<DOMAIN>.<PORT:3269>'
```

EXAMPLE 15 Configures the default privileges, where *privileges* are the same as those used in the `setad group custom roles` command.

XSCF> **setad defaultrole platadm platop**

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

showad (8)

NAME	setaltitude - set the altitude of the system or whether or not the air filter installed												
SYNOPSIS	setaltitude -s <i>key=value</i> setaltitude -h												
DESCRIPTION	<p>The <code>setaltitude(8)</code> command sets the altitude of the system or whether or not the air filter installed.</p> <p>Whether or not the air filter installed can be specified on the M4000/M5000 servers only.</p>												
Privileges	<p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>												
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-s <i>key=value</i></td><td>The item to be set is specified by <i>key</i>. The following value can be specified:<table><tr><td>altitude</td><td>Sets the altitude of the system.</td></tr><tr><td>filter</td><td>Sets whether or not to install the air filter. You can specify this on the M4000/M5000 servers only.</td></tr></table><p>When you specified <code>altitude</code> as <i>key</i>, specify the altitude of the system in <i>value</i> in units of meters (m). An integer equal to or greater than 0 can be specified, and the specified value is rounded up to the nearest hundred meters. The default value is 0 meters.</p><p>When you specified <code>filter</code> as <i>key</i>, either of the following can be specified for value:</p><table><tr><td>installed</td><td>Air filter is installed.</td></tr><tr><td>uninstalled</td><td>Air filter is not installed.</td></tr></table></td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-s <i>key=value</i>	The item to be set is specified by <i>key</i> . The following value can be specified: <table><tr><td>altitude</td><td>Sets the altitude of the system.</td></tr><tr><td>filter</td><td>Sets whether or not to install the air filter. You can specify this on the M4000/M5000 servers only.</td></tr></table> <p>When you specified <code>altitude</code> as <i>key</i>, specify the altitude of the system in <i>value</i> in units of meters (m). An integer equal to or greater than 0 can be specified, and the specified value is rounded up to the nearest hundred meters. The default value is 0 meters.</p> <p>When you specified <code>filter</code> as <i>key</i>, either of the following can be specified for value:</p> <table><tr><td>installed</td><td>Air filter is installed.</td></tr><tr><td>uninstalled</td><td>Air filter is not installed.</td></tr></table>	altitude	Sets the altitude of the system.	filter	Sets whether or not to install the air filter. You can specify this on the M4000/M5000 servers only.	installed	Air filter is installed.	uninstalled	Air filter is not installed.
-h	Displays usage statement. When used with other options or operands, an error occurs.												
-s <i>key=value</i>	The item to be set is specified by <i>key</i> . The following value can be specified: <table><tr><td>altitude</td><td>Sets the altitude of the system.</td></tr><tr><td>filter</td><td>Sets whether or not to install the air filter. You can specify this on the M4000/M5000 servers only.</td></tr></table> <p>When you specified <code>altitude</code> as <i>key</i>, specify the altitude of the system in <i>value</i> in units of meters (m). An integer equal to or greater than 0 can be specified, and the specified value is rounded up to the nearest hundred meters. The default value is 0 meters.</p> <p>When you specified <code>filter</code> as <i>key</i>, either of the following can be specified for value:</p> <table><tr><td>installed</td><td>Air filter is installed.</td></tr><tr><td>uninstalled</td><td>Air filter is not installed.</td></tr></table>	altitude	Sets the altitude of the system.	filter	Sets whether or not to install the air filter. You can specify this on the M4000/M5000 servers only.	installed	Air filter is installed.	uninstalled	Air filter is not installed.				
altitude	Sets the altitude of the system.												
filter	Sets whether or not to install the air filter. You can specify this on the M4000/M5000 servers only.												
installed	Air filter is installed.												
uninstalled	Air filter is not installed.												
EXTENDED DESCRIPTION	<ul style="list-style-type: none">■ If the altitude of the system is set, any abnormality in the intake air temperature can be detected quickly. If the altitude of the system is unknown, set a high value. However, even if no altitude is set for the system, any abnormality in temperatures such as the CPU temperature can still be detected, so the system would not be damaged by a fatal error.												

- To apply the specified configuration, execute the `rebootxscf(8)` command and reset XSCF.
- The command does not accept negative numbers. If the system is below sea-level use `altitude=0`.
- When you specified either of the altitude of the system or whether or not the air filter installed, the current settings are listed. The setting of the air filter is displayed only when it is set to installed.
- When the `showaltitude(8)` command is executed, the current settings are displayed.

EXAMPLES

EXAMPLE 1 Sets the altitude of the system to 1000 m.

```
XSCF> setaltitude -s altitude=1000
1000m
```

EXAMPLE 2 Sets the altitude of the system to 200 m. The specified value is rounded up to the nearest hundred meters.

```
XSCF> setaltitude -s altitude=157
200m
```

EXAMPLE 3 Sets the altitude of the system to 1000 m, on the M4000/M5000 servers with the air filter installed.

```
XSCF> setaltitude -s altitude=1000
1000m
Filter is installed.
```

EXAMPLE 4 Sets the air filter uninstalled, on the M4000/M5000 servers.

```
XSCF> setaltitude -s filter=uninstalled
1000m
```

EXIT STATUS

The following exit values are returned:

- | | |
|----|------------------------|
| 0 | Successful completion. |
| >0 | An error occurred. |

SEE ALSO

`rebootxscf(8)`, `showaltitude(8)`

NAME	setarchiving - configure the log archiving functionality
SYNOPSIS	<p>setarchiving [-k <i>host-key</i>] [-l <i>audit-limit,non-audit-limit</i>] [-p <i>password</i> -r] [-t <i>user@host:directory</i>] [-v] [-y -n]</p> <p>setarchiving enable disable</p> <p>setarchiving -h</p>
DESCRIPTION	<p>setarchiving(1M) manages the log archiving configuration. Persistent storage space on the Service Processor is limited. Some logs may grow to the point where old log entries must be overwritten or deleted. Log archiving allows the user to set up the Service Processor to automatically archive its log data on a remote host.</p> <p>Note – Logs archived on the archive host should be rotated at regular intervals to avoid loss of log information. Use <code>logadm(1M)</code> to configure log rotation on a system that runs the Oracle Solaris OS.</p> <p>Note – You must set up the archive host correctly prior to enabling the log archiving feature. (See EXAMPLE 1.) If you attempt to enable archiving while the configuration is invalid (for example, if the specified archive host does not exist), <code>setarchiving</code> exits with an error message. <code>setarchiving</code> exits with an error message if you request invalid configuration changes while archiving is enabled.</p> <p>Note – <code>setarchiving(8)</code> requires at least one option or operand.</p>
Privileges	<p>You must have <code>platadm</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>

OPTIONS

The following options are supported:

- h** Displays usage statement.
- When used with other options or operands, an error occurs.
- k *host-key*** Sets the public key that XSCF uses to verify the identity of the host. Possible values for the *host-key* are shown here:
- none**
- This literal value specifies that a public key should not be used to authenticate the archive host. If an archive host public key was previously configured, it is deleted.
- download**
- This literal value specifies that setarchiving should download the public host key from the archive host using the SSH protocol. If the **t** option is used, setarchiving downloads the key from the host specified in the argument to **-t**. Otherwise, setarchiving downloads the key from the current archive host. Next, setarchiving displays the key's md5 fingerprint and prompts you for confirmation of the identity of the host to continue. If you accept the key, it is saved and used for server authentication. If you reject the key, setarchiving exits without changing the configuration.
- public-key***
- The specified public key is stored and used for server authentication. The *host-key* argument should be the complete *public-key* for the archive host, beginning with the key type.

Note – The *public-key* should be enclosed in quotes to ensure that the shell treats it as a single word.

- l *audit-limit,non-audit-limit*** Sets the space limits for log archives in megabytes. The option argument must consist of two values separated by a comma.
- The *audit-limit* value specifies the archive space limit for audit logs. It must be either 0 (zero), *unlimited* or an integer in the range of 500–50000. If you do not use the **-l** option to modify the value of *audit-limit*, the initial archive space limit for audit logs is *unlimited*.
- The *non-audit-limit* value specifies the archive space limit for all other logs, in megabytes. It must be an integer in the range of 500–50000. If unset, the initial value for *non-audit-limit* depends on the type of server. Use the `showarchiving(8)` command to determine the value for your server.
- If either of the specified values is invalid, the command displays an error and exits without making any changes.
- n** Automatically answers "n" (no) to all prompts. Prompts are displayed.
- p *password*** Sets the password used for `ssh` login. This option is provided to facilitate scripting. To change the password interactively, use the **-r** option.
- r** Reads the password used for `ssh` login. The `setarchiving` command displays a prompt and reads the new password without echoing it to the screen.
- t *user@host:directory*** Sets the archive target. The *host* field specifies the host name or IP address of the archive host. The *user* field specifies the user name for the `ssh` login to the archive host. The *directory* field specifies the archive directory on the archive host where the archives should be stored. The directory field must not begin with a "~".
- v** Specifies verbose output. When this option is used in conjunction with **-k download**, `setarchiving` displays the downloaded public key in addition to its md5 fingerprint.
- y** Automatically answers "y" (yes) to all prompts. Prompts are displayed.

OPERANDS	<p>The following operands are supported:</p> <p>enable Activates the log archiving feature. Cannot be used with any options.</p> <p>disable De-activates the log archiving feature. Cannot be used with any options.</p>
EXAMPLES	<p>EXAMPLE 1 Setting the Archiving Target and Password</p> <pre>XSCF> setarchiving -t jsmith@somehost.company.com:/home/jsmith/logs -r Enter ssh password for jsmith@somehost.company.com: []</pre> <p>EXAMPLE 2 Setting the Public Host Key</p> <pre>XSCF> setarchiving -k download Downloading public host key from somehost.company.com.... Fingerprint: c3:75:f9:97:7d:dc:le:le:62:06:c1:6f:87:bc:e8:0d Accept this public key (yes no): yes</pre> <p>EXAMPLE 3 Setting the Space Limits for Archives</p> <pre>XSCF> setarchiving -l 10000,10000</pre> <p>EXAMPLE 4 Enabling Archiving</p> <pre>XSCF> setarchiving enable Testing the archiving configuration... Logs will be archived to somehost.company.com.</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion. Configuration updated.</p> <p>>0 An error occurred.</p>
SEE ALSO	<p>showarchiving (8)</p>

NAME	setaudit - manage the system auditing functionality
SYNOPSIS	<p>setaudit enable disable archive delete</p> <p>setaudit [-p count suspend] [-m <i>mailaddr</i>] [-a <i>users</i>=enable disable default] [-c <i>classes</i>={enable disable}]... [-e <i>events</i>=enable disable]... [-g {enable disable}] [-t <i>percents</i>]</p> <p>setaudit -h</p>
DESCRIPTION	<p>setaudit(8) manages the collection of data on the use of system resources. Audit data provides a record of security-related system events. This data can be used to assign responsibility for actions that have taken place on the system. Auditing generates records when specified events occur. Events that generate audit records include:</p> <ul style="list-style-type: none"> ■ System startup and shutdown ■ Login and logout ■ Authentication actions ■ Administrative actions
Privileges	<p>You must have auditadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-a <i>users</i>=enable disable default</p> <p>Sets the audit record generation policy for the specified users. <i>users</i> is a comma-separated list of valid user names.</p> <p>When set to enable or disable, audit record generation for the users is turned on or off respectively. This setting overrides the global policy for each specified user. To set the global policy for users, use the -g option.</p> <p>When set to default, the policy for the users is set to follow the global policy. Use showaudit -g to display the global user audit record generation policy.</p>

`-c classes=enable|disable`

Changes the audit record generation policy for the specified audit classes. *classes* is a comma-separated list of audit classes. A class may be specified by its numeric value or its name. The ACS_ prefix may be omitted. For example, the class of audit-related events can be expressed as ACS_AUDIT, AUDIT or 16.

The following are valid classes:

all	Denotes all classes.
ACS_SYSTEM(1)	System-related events
ACS_WRITE(2)	Commands that can modify a state
ACS_READ(4)	Commands that read a current state
ACS_LOGIN(8)	Login-related events
ACS_AUDIT(16)	Audit-related events
ACS_DOMAIN(32)	Domain management-related events
ACS_USER(64)	User management-related events
ACS_PLATFORM(128)	Platform management-related events
ACS_MODES(256)	Mode-related events

This option may be specified multiple times. Multiple specifications are processed together with `-e` options in the order listed. See EXAMPLE 1.

When set to `enable` or `disable`, audit record generation for the specified classes is turned on or off respectively. You can use the `-e` option to override these settings for an individual event.

The class and event audit record generation policy applies to all users. Unique class and event policies cannot be specified for individual users.

`-c classes=enable|disable`

Changes the audit record generation policy for the specified audit classes. *classes* is a comma-separated list of audit classes. A class may be specified by its numeric value or its name. The ACS_ prefix may be omitted. For example, the class of audit-related events can be expressed as ACS_AUDIT, AUDIT or 16.

The following are valid classes:

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ACS_USER(64)	User management-related events
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ACS_MODES(256)	Mode-related events

This option may be specified multiple times. Multiple specifications are processed together with `-e` options in the order listed. See EXAMPLE 1.

When set to `enable` or `disable`, audit record generation for the specified classes is turned on or off respectively. You can use the `-e` option to override these settings for an individual event.

The class and event audit record generation policy applies to all users. Unique class and event policies cannot be specified for individual users.

`-e events=enable|disable`

Changes the audit record generation policy for the specified audit events. *events* is a comma-separated list of audit events. An event may be specified by its numeric value or its name. The `AEV_` prefix may be omitted. For example, the event for SSH login can be expressed as `AEV_LOGIN_SSH`, `LOGIN_SSH` or `0`.

See `showaudit -e all` for a list of valid events.

This option may be specified multiple times. Multiple specifications are processed together with `-c` options in the order listed. See EXAMPLE 3.

When set to `enable` or `disable`, audit record generation for the specified events is turned on or off respectively. These settings override the class settings for the event. Class settings are set by the `-c` option.

The class and event audit record generation policy applies to all users. Unique class and event policies cannot be specified for individual users.

`-g enable|disable`

Sets the global user audit record generation policy.

When set to `disable`, no audit record which can be attributed to any user account is generated. These settings can be overridden on an individual user basis using the `-a` option.

`-h`

Displays usage statement.

When used with other options or operands, an error occurs.

`-m mailaddr`

Sets the mail address to which email is sent when the local audit storage space usage reaches a threshold (see option `-t`). Email addresses must be a valid email address of the form *user@company.com*. Specifying `none` for *mailaddr* turns off email notification.

`-p suspend|count`

Sets the policy to follow when the audit trail becomes full. The following are valid values:

`suspend` All processes which try to write to audit records will be suspended until either space becomes available and records can be written, or the policy is changed to `count`.

`count` New audit records are dropped and a count is kept of how many records are dropped.

`-t percents`

Sets thresholds at which to issue a warning about local audit storage usage. *percents* is a comma-separated list of percentages of available space used. At most four values may be set. For example, values of 50, 75, 80, 90 would cause warnings to be issued when 50%, 75%, 80% and 90% respectively, of the available storage for audit records is consumed. The default value is 80%.

Warnings are issued as a message to the console and optionally to an administrator using email. See `-m mailaddr`.

OPERANDS

The following operands are supported:

<code>archive</code>	Notifies the log archiving facility to archive the current audit trail.
<code>delete</code>	<p>Deletes audit trail data from the older audit log partition and makes it the current partition. <code>delete</code> can be used to free space for new audit records if the local audit trail becomes full. Space in the partitions is automatically cleared as needed when logs are archived. The operation is only necessary if audit policy or network problems prevent archiving of audit logs.</p> <p>Note - Executing <code>setaudit delete</code> a second time deletes data from the newer audit log partition, leaving no audit trail data.</p> <p>For more information on managing audit logs see the <i>SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Administration Guide</i>.</p>
<code>disable</code>	Turns off the writing of audit records to the audit trail and notifies the log archiving facility to archive the current audit trail.
<code>enable</code>	Turns on the writing of audit records to the audit trail.

EXAMPLES

EXAMPLE 1 Changing Classes Using Names

```
XSCF> setaudit -c LOGIN,AUDIT=disable -c ACS_READ=enable
```

Auditing for LOGIN and AUDIT classes has been disabled. Auditing for READ class is enabled.

EXAMPLE 2 Changing Classes Using Numbers

```
XSCF> setaudit -c 8,16=disable -c 1=enable
```

Auditing for classes 8 (LOGIN) and 16 (AUDIT) has been disabled. Auditing for class 1 (SYSTEM) is enabled.

EXAMPLE 3 Changing Classes and Enabling an Event

```
XSCF> setaudit -c 1=enable -e 64=disable
```

Auditing is enabled for all of Class 1 (SYSTEM) except for event 64 (USER) is disabled.

EXAMPLE 4 Enabling Auditing

```
XSCF> setaudit enable
```

Turns on writing of the audit records for the audit trail.

EXAMPLE 5 Enabling Warnings

```
XSCF> setaudit -t 50,75
```

Warnings will be sent at 50% capacity and 75% capacity.

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

showaudit(8)

NAME	setautologout - set the session timeout time of the XSCF shell
SYNOPSIS	setautologout -s <i>timeout</i> setautologout -h
DESCRIPTION	<p>The setautologout(8) command sets the session timeout time of the XSCF shell.</p> <p>The default of the session timeout time is 10 minutes.</p>
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-s <i>timeout</i> Specifies the session timeout time of the XSCF shell. Specify a timeout time value in units of minutes for <i>timeout</i>. An integer ranging from 1 to 255 can be specified.</p>
EXTENDED DESCRIPTION	<p>The specified session timeout time becomes effective after the subsequent login.</p>
EXAMPLES	<p>EXAMPLE 1 Sets the session timeout time of the XSCF shell to 30 minutes.</p> <pre>XSCF> setautologout -s 30 30min</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	<p>showautologout(8)</p>

setautologout(8)



NAME	setcod - set up the Capacity on Demand (COD) resources used for domains														
SYNOPSIS	<p>setcod</p> <p>setcod [-v]</p> <p>setcod [[-q] -{y n}] [-v] <i>headroom</i></p> <p>setcod [-v] -d <i>domain_id</i> [<i>proc-permits</i>]</p> <p>setcod -h</p>														
DESCRIPTION	<p>setcod(8) sets up the COD resources to be used for domains. COD hardware activation keys (COD keys) must be installed before COD boards in a domain can be utilized. You can also enable headroom and reserve COD hardware activation permits (COD permits) for some domains with setcod(8).</p> <p>The setcod(8) command is not available on the M3000 server.</p> <p>When no <i>domain_id</i> is specified, current values are displayed in the square brackets ([]) at the command prompt. If no value is specified for an operand, it retains its current value.</p>														
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>														
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-d <i>domain_id</i></td><td>Domain identifier. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td>-v</td><td>Specifies verbose output.</td></tr><tr><td>-y</td><td>Automatically answers "y" (yes) to all prompts.</td></tr></table>	-d <i>domain_id</i>	Domain identifier. <i>domain_id</i> can be 0–23 depending on the system configuration.	-h	Displays usage statement.		When used with other options or operands, an error occurs.	-n	Automatically answers "n" (no) to all prompts.	-q	Suppresses all messages to stdout, including prompts.	-v	Specifies verbose output.	-y	Automatically answers "y" (yes) to all prompts.
-d <i>domain_id</i>	Domain identifier. <i>domain_id</i> can be 0–23 depending on the system configuration.														
-h	Displays usage statement.														
	When used with other options or operands, an error occurs.														
-n	Automatically answers "n" (no) to all prompts.														
-q	Suppresses all messages to stdout, including prompts.														
-v	Specifies verbose output.														
-y	Automatically answers "y" (yes) to all prompts.														

OPERANDS | The following operands are supported:

<i>headroom</i>	Amount of headroom (processors to be used on demand) to be enabled. Maximum value is 4.
<i>proc-permits</i>	The number of COD permits reserved for a domain. One COD permit is required for each CPU.

**EXTENDED
DESCRIPTION**

If you run the `setcod` command without specifying any options, the command prompts you for COD information.

You are asked to specify the amount of COD headroom to be used, and the number of COD permits to be reserved for your domains. When you are prompted for COD information, the maximum values allowed are displayed within parentheses and default values are displayed within brackets ([]).

`setcod` enables COD headroom. Use the `-d domain_id` to specify the number of domain COD permits to be reserved.

EXAMPLES

EXAMPLE 1 Setting COD CPU Headroom Quantity and Reserve Domain COD Permits

```
XSCF> setcod
```

```
PROC Permits installed: 0
PROC Headroom Quantity (0 to disable, 4 MAX) [0]: 1
WARNING:Using headroom requires you to install hardware activation key(s)
within 30 days. Do you agree? [y|n]: y
PROC Permits reserved for domain 0 (1 MAX) [0]:
PROC Permits reserved for domain 1 (0 MAX) [0]:
PROC Permits reserved for domain 2 (0 MAX) [0]:
PROC Permits reserved for domain 3 (0 MAX) [0]:
PROC Permits reserved for domain 4 (0 MAX) [0]:
PROC Permits reserved for domain 5 (0 MAX) [0]:
PROC Permits reserved for domain 6 (0 MAX) [0]:
PROC Permits reserved for domain 7 (0 MAX) [0]:
PROC Permits reserved for domain 8 (0 MAX) [0]:
PROC Permits reserved for domain 9 (0 MAX) [0]:
PROC Permits reserved for domain 10 (0 MAX) [0]:
PROC Permits reserved for domain 11 (0 MAX) [0]:
PROC Permits reserved for domain 12 (0 MAX) [0]:
PROC Permits reserved for domain 13 (0 MAX) [0]:
PROC Permits reserved for domain 14 (0 MAX) [0]:
PROC Permits reserved for domain 15 (0 MAX) [0]:
```

After this command completes, you will see a message similar to this one in the XSCF console:

```
Aug 28 17:28:30 FF1-1-0 codd[PID]: COD PROC Headroom changed to 1
```

EXAMPLE 2 Set the COD Headroom CPUs to 0

XSCF> **setcod 0**

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide

setcod(8)



NAME	setdate - set the date and time of XSCF																		
SYNOPSIS	setdate [-q -{y n}] [-u] -s <i>date</i> setdate -h																		
DESCRIPTION	<p>The setdate(8) command sets the date and time of XSCF.</p> <p>If the local date and time are specified, they are set following conversion to coordinated universal time (UTC).</p> <p>After the command executed, XSCF will be reset automatically.</p>																		
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>																		
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> <tr> <td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr> <tr> <td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr> <tr> <td>-s <i>date</i></td><td>Sets date and time. <i>date</i> can be specified in either of the following formats:</td></tr> <tr> <td></td><td> <table> <tr> <td><i>yyyy.MM.DD-hh:mm:ss</i></td><td>Specifies date in the format of "year.month.day-hour:minute:second."</td></tr> <tr> <td><i>MMDDhhmmmyyyy.ss</i></td><td>Specifies data in the format "MonthDayHourMinuteYear.second."</td></tr> </table> </td></tr> <tr> <td>-u</td><td>Specifies time in UTC. When omitted, the local time is specified.</td></tr> <tr> <td>-y</td><td>Automatically answers "y" (yes) to all prompts.</td></tr> </table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-n	Automatically answers "n" (no) to all prompts.	-q	Suppresses all messages to stdout, including prompts.	-s <i>date</i>	Sets date and time. <i>date</i> can be specified in either of the following formats:		<table> <tr> <td><i>yyyy.MM.DD-hh:mm:ss</i></td><td>Specifies date in the format of "year.month.day-hour:minute:second."</td></tr> <tr> <td><i>MMDDhhmmmyyyy.ss</i></td><td>Specifies data in the format "MonthDayHourMinuteYear.second."</td></tr> </table>	<i>yyyy.MM.DD-hh:mm:ss</i>	Specifies date in the format of "year.month.day-hour:minute:second."	<i>MMDDhhmmmyyyy.ss</i>	Specifies data in the format "MonthDayHourMinuteYear.second."	-u	Specifies time in UTC. When omitted, the local time is specified.	-y	Automatically answers "y" (yes) to all prompts.
-h	Displays usage statement. When used with other options or operands, an error occurs.																		
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	<table> <tr> <td><i>yyyy.MM.DD-hh:mm:ss</i></td><td>Specifies date in the format of "year.month.day-hour:minute:second."</td></tr> <tr> <td><i>MMDDhhmmmyyyy.ss</i></td><td>Specifies data in the format "MonthDayHourMinuteYear.second."</td></tr> </table>	<i>yyyy.MM.DD-hh:mm:ss</i>	Specifies date in the format of "year.month.day-hour:minute:second."	<i>MMDDhhmmmyyyy.ss</i>	Specifies data in the format "MonthDayHourMinuteYear.second."														
<i>yyyy.MM.DD-hh:mm:ss</i>	Specifies date in the format of "year.month.day-hour:minute:second."																		
<i>MMDDhhmmmyyyy.ss</i>	Specifies data in the format "MonthDayHourMinuteYear.second."																		
-u	Specifies time in UTC. When omitted, the local time is specified.																		
-y	Automatically answers "y" (yes) to all prompts.																		
EXTENDED DESCRIPTION	<ul style="list-style-type: none"> ■ When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command. ■ In the M8000/M9000 servers, the setting automatically reflected to the standby XSCF. When there is a defect on the standby XSCF, it leads to an error and the setting will be reflected to the active XSCF only. 																		

- When you use the `setdate(8)` command to set the time, it may affect the time difference to the domain, and a gap of time may arise at the domain start. After you set the time, use the `showdateoffset(8)` command to confirm the time difference between XSCF and the domain. In case the difference has become enlarged, use the `resetdateoffset(8)` command to reset the time difference.
- When an NTP server has been set to XSCF, you cannot set the the time. To check whether an NTP server is set to XSCF, use the `showntp(8)` command.
- You can execute the `setdate(8)` command only when all domains are powered off. To verify that all domains are powered off, execute the `showlogs power` command and look for the value `System Power Off`.
- To check the currently set XSCF date and time, execute the `showdate(8)` command.

EXAMPLES

EXAMPLE 1 Sets "January 27 16:59:00 2006" of the local time (JST) as the current time.

```
XSCF> setdate -s 012716592006.00
Fri Jan 27 16:59:00 JST 2006
The XSCF will be reset. Continue? [y|n] :y
Fri Jan 27 07:59:00 UTC 2006
XSCF>
The reset continues after this point.
```

EXAMPLE 2 Sets "January 27 07:59:00 2006" of UTC as the current time.

```
XSCF> setdate -u -s 012707592006.00
Fri Jan 27 07:59:00 UTC 2006
The XSCF will be reset. Continue? [y|n] :y
Fri Jan 27 07:59:00 UTC 2006
XSCF>
The reset continues after this point.
```

EXAMPLE 3 Sets "January 27 16:59:00 2006" of the local time (JST) as the current time. Automatically replies with "y" to the prompt.

```
XSCF> setdate -y -s 012716592006.00
Fri Jan 27 16:59:00 JST 2006
The XSCF will be reset. Continue? [y|n] :y
Fri Jan 27 07:59:00 UTC 2006
XSCF>
The reset continues after this point.
```

EXAMPLE 4 Sets "January 27 16:59:00 2006" of the local time (JST) as the current time. Automatically replies with "y" without displaying the prompt.

```
XSCF> setdate -q -y -s 012716592006.00
```

```
XSCF>
```

The reset continues after this point.

EXIT STATUS

The following exit values are returned:

0 Successful completion.

>0 An error occurred.

SEE ALSO

setntp(8), settimezone(8), showdate(8), shownntp(8), showtimezone(8)

setdate(8)



NAME	setdcl - set a domain component list (DCL)
SYNOPSIS	<pre> setdcl -d <i>domain_id</i> -s <i>policy=value</i> setdcl -d <i>domain_id</i> -s <i>option=value</i> <i>lsb</i> [<i>lsb...</i>] setdcl -d <i>domain_id</i> -a <i>lsb=xsb</i> [<i>lsb=xsb...</i>] setdcl -d <i>domain_id</i> -r <i>lsb</i> [<i>lsb...</i>] setdcl -h </pre>
DESCRIPTION	<p>The <code>setdcl(8)</code> command sets a DCL.</p> <p>A DCL is hardware resource information that can be set for a domain or the logical system boards (LSBs) that are components of a domain.</p> <p>An LSB is a board unit recognized by the Oracle Solaris OS in a domain. Up to 16 boards can be registered in each domain, and they are represented by integer numbers ranging from 0 to 15.</p> <p>An extended system board (XSB) is a board unit that can be used in the system and is one partition of a partitioned physical system board (PSB). An XSB is represented by <i>x-y</i>, a combination of a PSB number and the number of one partition of the partitioned PSB (<i>x</i> is an integer ranging from 00 to 15, and <i>y</i> is an integer ranging from 0 to 3).</p> <p>The <code>setdcl(8)</code> command associates an XSB with an LSB that can be recognized by the Oracle Solaris OS in the domain, and its settings enable the Oracle Solaris OS in the domain to use hardware resources on the associated XSB.</p> <p>The <code>setdcl(8)</code> command can set the following types of DCL information:</p> <p>For the domain:</p> <ul style="list-style-type: none"> ■ Degradation range applicable for an error detected during an initial diagnosis of hardware (<code>policy</code>) <p>On the M3000 server, the <code>setdcl(8)</code> command can set <code>policy</code> only.</p> <p>For the LSB:</p> <ul style="list-style-type: none"> ■ XSB number of the XSB to be associated with an LSB (<code>lsb</code>, <code>xsb</code>) The XSB with the specified XSB number is associated with an LSB. ■ Using memory mounted on an LSB (<code>no-mem</code>) The user can specify whether an operating system in the domain can use memory mounted on an LSB. ■ Using I/O devices mounted on an LSB (<code>no-io</code>)

	<p>The user can specify whether an operating system in the domain can use I/O devices, such as a PCI card, mounted on an LSB.</p> <ul style="list-style-type: none">■ Whether to set a priority for the specified LSB as a floating board, relative to other boards (<code>float</code>) <p>The user can specify whether to set a priority for the specified LSB as a floating board, relative to other boards. A floating board is used for dynamic reconfiguration (DR) for purposes such as changing the domain configuration, while minimizing effect of DR on the operating system.</p>
Privileges	<p>You must have <code>platadm</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported:</p> <div><div><div>-a <i>lsb=xsb</i></div><div><p>Specifies an XSB number to be associated with an LSB number in the domain. The following form can be accepted. On the M3000 server, you cannot specify this option.</p><p><i>lsb=xsb</i></p><p><i>lsb</i> Specifies an LSB number. An integer ranging from 0 to 15 can be specified.</p><p><i>xsb</i> Specifies an XSB number. The following <i>xsb</i> form is accepted:</p><p><i>x-y</i> <i>x</i>: An integer from 00–15. <i>y</i>: An integer from 0–3.</p><p><i>lsb</i> and <i>xsb</i> can be specified with an equal sign (=) as a delimiter. The space character must not be inserted immediately before and after "=". <i>lsb=xsb</i> can be repeated multiple times by using a space character as a delimiter.</p><p>If the same pair of an LSB number and XSB number is duplicated, an error occurs. Also, if an XSB number has already been set for the specified <i>lsb</i>, an error occurs.</p><p>If the specified <i>xsb</i> has already been set for another LSB, the existing setting is canceled and the specified <i>xsb</i> is set for the specified <i>lsb</i>.</p></div></div><div><div>-d <i>domain_id</i></div><div><p>Specifies the domain ID to be set. An integer ranging from 0 to 23 can be specified for <i>domain_id</i>, depending on the system configuration.</p></div></div><div><div>-h</div><div><p>Displays usage statement. When used with other options or operands, an error occurs.</p></div></div></div>

<code>-r</code>	Clears the XSB number associated with an LSB number in the specified domain. On the M3000 server, you cannot specify this option.																		
<code>-s option=value</code>	<p>Makes settings regarding hardware resources of the XSB associated with an LSB. An item to be set is specified for <i>option</i>, and a value corresponding to <i>option</i> is specified for <i>value</i>. <i>option</i> and <i>value</i> are specified only once in a format using an equal sign (=) to delimit the specified values. The space character must not be inserted immediately before and after "=".</p> <p>One of the following can be specified for <i>option</i>. On the M3000 server, only <i>policy</i> can be specified.</p> <table> <tr> <td><code>policy</code></td><td>Degradation range applicable for a detected error during an initial diagnosis of hardware.</td></tr> <tr> <td><code>no-mem</code></td><td>Whether to omit the use of memory on a domain</td></tr> <tr> <td><code>no-io</code></td><td>Whether to omit the use of I/O devices on a domain</td></tr> <tr> <td><code>float</code></td><td>Whether to set a priority for the board as a floating board, relative to other boards</td></tr> </table> <p>If <i>policy</i> is specified for <i>option</i>, either of the following can be specified for <i>value</i>:</p> <table> <tr> <td><code>fru</code></td><td>Degrades the target Field Replaceable Unit (FRU) for an error detected by a diagnosis.</td></tr> <tr> <td><code>xsb</code></td><td>Degrades the target XSB for an error detected by a diagnosis.</td></tr> <tr> <td><code>system</code></td><td>Stops the target domain for an error detected by a diagnosis.</td></tr> </table> <p>If <i>no-mem</i> is specified for <i>option</i>, either of the following can be specified for <i>value</i>:</p> <table> <tr> <td><code>true</code></td><td>Omits the use of memory on a domain.</td></tr> <tr> <td><code>false</code></td><td>Does not omit the use of memory on a domain (default).</td></tr> </table>	<code>policy</code>	Degradation range applicable for a detected error during an initial diagnosis of hardware.	<code>no-mem</code>	Whether to omit the use of memory on a domain	<code>no-io</code>	Whether to omit the use of I/O devices on a domain	<code>float</code>	Whether to set a priority for the board as a floating board, relative to other boards	<code>fru</code>	Degrades the target Field Replaceable Unit (FRU) for an error detected by a diagnosis.	<code>xsb</code>	Degrades the target XSB for an error detected by a diagnosis.	<code>system</code>	Stops the target domain for an error detected by a diagnosis.	<code>true</code>	Omits the use of memory on a domain.	<code>false</code>	Does not omit the use of memory on a domain (default).
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<code>fru</code>	Degrades the target Field Replaceable Unit (FRU) for an error detected by a diagnosis.																		
<code>xsb</code>	Degrades the target XSB for an error detected by a diagnosis.																		
<code>system</code>	Stops the target domain for an error detected by a diagnosis.																		
<code>true</code>	Omits the use of memory on a domain.																		
<code>false</code>	Does not omit the use of memory on a domain (default).																		

<code>-r</code>	Clears the XSB number associated with an LSB number in the specified domain. On the M3000 server, you cannot specify this option.																		
<code>-s option=value</code>	<p>Makes settings regarding hardware resources of the XSB associated with an LSB. An item to be set is specified for <i>option</i>, and a value corresponding to <i>option</i> is specified for <i>value</i>. <i>option</i> and <i>value</i> are specified only once in a format using an equal sign (=) to delimit the specified values. The space character must not be inserted immediately before and after "=".</p> <p>One of the following can be specified for <i>option</i>. On the M3000 server, only <code>policy</code> can be specified.</p> <table> <tr> <td><code>policy</code></td><td>Degradation range applicable for a detected error during an initial diagnosis of hardware.</td></tr> <tr> <td><code>no-mem</code></td><td>Whether to omit the use of memory on a domain</td></tr> <tr> <td><code>no-io</code></td><td>Whether to omit the use of I/O devices on a domain</td></tr> <tr> <td><code>float</code></td><td>Whether to set a priority for the board as a floating board, relative to other boards</td></tr> </table> <p>If <code>policy</code> is specified for <i>option</i>, either of the following can be specified for <i>value</i>:</p> <table> <tr> <td><code>fru</code></td><td>Degrades the target Field Replaceable Unit (FRU) for an error detected by a diagnosis.</td></tr> <tr> <td><code>xsb</code></td><td>Degrades the target XSB for an error detected by a diagnosis.</td></tr> <tr> <td><code>system</code></td><td>Stops the target domain for an error detected by a diagnosis.</td></tr> </table> <p>If <code>no-mem</code> is specified for <i>option</i>, either of the following can be specified for <i>value</i>:</p> <table> <tr> <td><code>true</code></td><td>Omits the use of memory on a domain.</td></tr> <tr> <td><code>false</code></td><td>Does not omit the use of memory on a domain (default).</td></tr> </table>	<code>policy</code>	Degradation range applicable for a detected error during an initial diagnosis of hardware.	<code>no-mem</code>	Whether to omit the use of memory on a domain	<code>no-io</code>	Whether to omit the use of I/O devices on a domain	<code>float</code>	Whether to set a priority for the board as a floating board, relative to other boards	<code>fru</code>	Degrades the target Field Replaceable Unit (FRU) for an error detected by a diagnosis.	<code>xsb</code>	Degrades the target XSB for an error detected by a diagnosis.	<code>system</code>	Stops the target domain for an error detected by a diagnosis.	<code>true</code>	Omits the use of memory on a domain.	<code>false</code>	Does not omit the use of memory on a domain (default).
<code>policy</code>	Degradation range applicable for a detected error during an initial diagnosis of hardware.																		
<code>no-mem</code>	Whether to omit the use of memory on a domain																		
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<code>system</code>	Stops the target domain for an error detected by a diagnosis.																		
<code>true</code>	Omits the use of memory on a domain.																		
<code>false</code>	Does not omit the use of memory on a domain (default).																		

If `no-io` is specified for *option*, either of the following can be specified for *value*:

- | | |
|--------------------|---|
| <code>true</code> | Omits the use of I/O devices on a domain. |
| <code>false</code> | Does not omit the use of I/O devices on a domain (default). |

If `float` is specified for *option*, either of the following can be specified for *value*:

- | | |
|--------------------|--|
| <code>true</code> | Gives a higher priority regarding floating boards. |
| <code>false</code> | Does not give a higher priority regarding floating boards (default). |

OPERANDS

The following operands are supported:

- | | |
|------------|---|
| <i>lsb</i> | Specifies the number of the LSB whose information is to be set. Specify by using an integer ranging from 0 to 15. Multiple <i>lsbs</i> can be specified by delimiting with spaces. Specifies unique <i>lsb</i> within the domain. If the same <i>lsb</i> number is specified, an error occurs. On the M3000 server, you cannot specify this option. |
|------------|---|

EXTENDED DESCRIPTION

- If the XSB associated with the specified LSB has been configured in the domain configuration, the information that is set for the LSB cannot be changed. Before making such a change, unassign the XSB from the domain configuration by executing the `deleteboard(8)` command, or re-configure it in another domain configuration by executing the `moveboard(8)` command.
- If the specified domain is running, the value of `policy` cannot be changed. To change the value, first turn off power to the domain.
- The currently set DCL information can be checked by using the `showdcl(8)` command.

EXAMPLES

EXAMPLE 1 Sets XSB#00-0 for LSB#00 and XSB#00-1 for LSB#01 of domain ID 0.

```
XSCF> setdcl -d 0 -a 00=00-0 01=00-1
```

EXAMPLE 2 Sets `no-mem=true` for LSB#00 and #01 of domain ID 0.

```
XSCF> setdcl -d 0 -s no-mem=true 00 01
```

EXAMPLE 3 Sets `policy=system` for domain ID 0.

```
XSCF> setdcl -d 0 -s policy=system
```

EXAMPLE 4 Clear the XSBs associated with LSB#00 and #01 of domain ID 0.

XSCF> **setdcl -d 0 -r 00 01**

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

addboard(8), deleteboard(8), moveboard(8), setupfru(8), showboards(8), showdcl(8), showdevices(8), showfru(8)

NAME	setdomainmode - set the modes of operation for the specified domain								
SYNOPSIS	setdomainmode [[-q] -{y n}] -d <i>domain_id</i> -m <i>function=mode</i> setdomainmode -h								
DESCRIPTION	<p>setdomainmode(8) sets the modes of operation for the specified domain.</p> <p>The modes of operation for the specified domain include the following types:</p> <table> <tr> <td>Diagnostics Level</td><td>OpenBoot PROM diagnostic levels. The default is standard.</td></tr> <tr> <td>Secure Mode</td><td>Whether to enable or disable the host watchdog and suppress break signal reception. The default of the host watchdog is enable and suppress break signal reception is enable.</td></tr> <tr> <td>Autoboot</td><td>Whether to enable or disable the auto boot function used at domain startup. The default is enable.</td></tr> <tr> <td>CPU Mode</td><td> <p>Way of determining the CPU operational mode mounted on the domain. The CPU operational mode can be automatically determined at domain startup (<i>auto</i>), or manually set to the compatible mode (<i>compatible</i>). The default is to let it automatically determined at domain startup. On the M3000 server, you cannot specify CPU Mode.</p> <p>The CPU operational mode includes the following two types:</p> <p>SPARC64 VII enhanced mode</p> <p>Operates using the enhanced functions of SPARC64 VII+ or SPARC64 VII processors. This mode is set to the domain that has only SPARC64 VII+ or SPARC64 VII processors and when the CPU operational mode is determined automatically.</p> <p>SPARC64 VI compatible mode</p> <p>All the mounted CPUs operate with the functions equivalent to the SPARC64 VI processor. This mode can be set to a domain of any CPU configuration.</p> </td></tr> </table> <p>If any of the modes of operation for the specified domain is set, the current settings are listed.</p>	Diagnostics Level	OpenBoot PROM diagnostic levels. The default is standard.	Secure Mode	Whether to enable or disable the host watchdog and suppress break signal reception. The default of the host watchdog is enable and suppress break signal reception is enable.	Autoboot	Whether to enable or disable the auto boot function used at domain startup. The default is enable.	CPU Mode	<p>Way of determining the CPU operational mode mounted on the domain. The CPU operational mode can be automatically determined at domain startup (<i>auto</i>), or manually set to the compatible mode (<i>compatible</i>). The default is to let it automatically determined at domain startup. On the M3000 server, you cannot specify CPU Mode.</p> <p>The CPU operational mode includes the following two types:</p> <p>SPARC64 VII enhanced mode</p> <p>Operates using the enhanced functions of SPARC64 VII+ or SPARC64 VII processors. This mode is set to the domain that has only SPARC64 VII+ or SPARC64 VII processors and when the CPU operational mode is determined automatically.</p> <p>SPARC64 VI compatible mode</p> <p>All the mounted CPUs operate with the functions equivalent to the SPARC64 VI processor. This mode can be set to a domain of any CPU configuration.</p>
Diagnostics Level	OpenBoot PROM diagnostic levels. The default is standard.								
Secure Mode	Whether to enable or disable the host watchdog and suppress break signal reception. The default of the host watchdog is enable and suppress break signal reception is enable.								
Autoboot	Whether to enable or disable the auto boot function used at domain startup. The default is enable.								
CPU Mode	<p>Way of determining the CPU operational mode mounted on the domain. The CPU operational mode can be automatically determined at domain startup (<i>auto</i>), or manually set to the compatible mode (<i>compatible</i>). The default is to let it automatically determined at domain startup. On the M3000 server, you cannot specify CPU Mode.</p> <p>The CPU operational mode includes the following two types:</p> <p>SPARC64 VII enhanced mode</p> <p>Operates using the enhanced functions of SPARC64 VII+ or SPARC64 VII processors. This mode is set to the domain that has only SPARC64 VII+ or SPARC64 VII processors and when the CPU operational mode is determined automatically.</p> <p>SPARC64 VI compatible mode</p> <p>All the mounted CPUs operate with the functions equivalent to the SPARC64 VI processor. This mode can be set to a domain of any CPU configuration.</p>								
Privileges	<p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none"> ■ OpenBoot PROM diagnostic levels: <table> <tr> <td>fieldeng</td><td>Can run this command for all domains.</td></tr> </table>	fieldeng	Can run this command for all domains.						
fieldeng	Can run this command for all domains.								

- Host watchdog and suppress break signal reception, auto boot function, and operational mode of CPU:

platadm	Can run this command for all domains.
domainadm	Can run this command only for your managed domains.

Refer to setprivileges(8) for more information.

OPTIONS

The following options are supported:

-d <i>domain_id</i>	Specifies the domain ID to be set. <i>domain_id</i> can be 0–23 depending on the system configuration.
-h	Displays usage statement. When used with other options or operands, an error occurs.

`-m function=mode` Sets the modes of operation and specifies its values. Use *function* to set the modes of operation. One of the following can be specified:

<code>diag</code>	Specifies the OpenBoot PROM diagnostic level.
<code>secure</code>	Specifies whether to enable or disable the host watchdog and suppress break signal reception.
<code>autoboot</code>	Specifies whether to enable or disable the Auto boot function.
<code>cpumode</code>	Sets the operational mode of CPU. When you specified <code>cpumode</code> on the M3000 server, it results in an error.

When `diag` is specified for *function*, any of the following can be specified for *mode*:

Note - When the domain is in any status other than `powered off`, it results in an error.

<code>none</code>	No diagnosis is performed.
<code>min</code>	Sets standard for the diagnostic level.
<code>max</code>	Sets maximum for the diagnostic level.

When `secure` is specified for *function*, one of the following can be specified for *mode*. The setting will be reflected after domain power on or restart.

<code>on</code>	Enables the host watchdog and suppress break signal reception.
<code>off</code>	Disables the host watchdog and suppress break signal reception.

When `autoboot` is specified for *function*, one of the following can be specified for *mode*. The setting will be reflected after domain power on or restart.

<code>on</code>	Enables the Auto boot function.
<code>off</code>	Disables the Auto boot function.

`-m function=mode` Sets the modes of operation and specifies its values. Use *function* to set the modes of operation. One of the following can be specified:

<code>diag</code>	Specifies the OpenBoot PROM diagnostic level.
<code>secure</code>	Specifies whether to enable or disable the host watchdog and suppress break signal reception.
<code>autoboot</code>	Specifies whether to enable or disable the Auto boot function.
<code>cpumode</code>	Sets the operational mode of CPU. When you specified <code>cpumode</code> on the M3000 server, it results in an error.

When `diag` is specified for *function*, any of the following can be specified for *mode*:

Note - When the domain is in any status other than `powered off`, it results in an error.

<code>none</code>	No diagnosis is performed.
<code>min</code>	Sets standard for the diagnostic level.
<code>max</code>	Sets maximum for the diagnostic level.

When `secure` is specified for *function*, one of the following can be specified for *mode*. The setting will be reflected after domain power on or restart.

<code>on</code>	Enables the host watchdog and suppress break signal reception.
<code>off</code>	Disables the host watchdog and suppress break signal reception.

When `autoboot` is specified for *function*, one of the following can be specified for *mode*. The setting will be reflected after domain power on or restart.

<code>on</code>	Enables the Auto boot function.
<code>off</code>	Disables the Auto boot function.

(continued)

When `cpumode` is specified for *function*, one of the following can be specified for *mode*:

Note - When the domain is in any status other than `powered off`, it results in an error.

`auto`

Automatically determines the operational mode of CPU at domain startup. Depending on the CPU configuration on the domain, any of the following CPU operational mode is set:

- o Consists only of SPARC64 VII+ or SPARC64 VII processors: SPARC64 VII enhanced mode
- o SPARC64 VII+ or SPARC64 VII processors, and VI processors mixed: SPARC64 VI compatible mode
- o Consists only of SPARC64 VI processors: SPARC64 VI compatible mode

`compatible`

Regardless of the CPUs mounted, sets the operational mode of CPU to the SPARC64 VI compatible mode.

`-n` Automatically answers "n" (no) to all prompts.

`-q` Suppresses all messages to stdout, including prompts.

`-y` Automatically answers "y" (yes) to all prompts.

EXTENDED DESCRIPTION

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "**y**" to execute the command or "**n**" to cancel the command.
- The system board (XSB) which can be added by Dynamic Reconfiguration (DR) is decided by the CPU operational mode currently set to the domain, which is as follows:

Domain CPU configuration	Value of CPU Mode	Current CPU operational mode	CPU configuration of a system board which can be added by DR operation
SPARC64 VII+/VII	auto	SPARC64 VII enhanced mode	SPARC64 VII+/VII

Domain CPU configuration	Value of CPU Mode	Current CPU operational mode	CPU configuration of a system board which can be added by DR operation
SPARC64 VII+/VII	compatible	SPARC64 VI compatible mode	Any CPU configuration
SPARC64 VII+/VII and SPARC64 VI	auto or compatible	SPARC64 VI compatible mode	Any CPU configuration
SPARC64 VI	auto or compatible	SPARC64 VI compatible mode	Any CPU configuration

For details of the CPU operational mode and the DR operation, see the *DR User's Guide*.

- To add the XSB other than those above, you need to perform the domain reconfiguration accompanied by the domain power off/on or reboot.
- When the operational mode of CPU has been automatically determined, if a situation as described below occurred, the CPU operational mode changes at the domain restart, from the SPARC64 VI compatible mode to the SPARC64 VII enhanced mode. In the SPARC64 VII enhanced mode, an XSB mounted with the SPARC64 VI processors cannot be added by DR operation.
 - When the SPARC64 VII+ or SPARC64 VII processors and VI processors are mixed, after the restart due to the SPARC64 VI processor failure, there is no SPARC64 VI processor on a domain.

When the SPARC64 VI processors mounted, or planned to be mounted on the domain, set the operational mode of CPU to the SPARC64 VI compatible mode.

- To check the mode of CPUs which currently set to the domain, execute the `prtdiag(1M)` command on Oracle Solaris OS. For the `prtdiag(1M)` command, see the manual page of Oracle Solaris OS.
- If the Mode switch of the operator panel is set to *Service*, the settings of the modes of operation for the specified domain have the following values, regardless of the settings of the `setdomainmode(8)` command:
 - OpenBoot PROM diagnostic level (*Diagnostic Level*), operational mode of CPU (*CPU Mode*): operates as the `setdomainmode(8)` command setting
 - Host watchdog and suppress break signal reception (*Secure Mode*), auto boot function (*Autoboot*): off
- When the OpenBoot PROM environmental variable '`auto-boot?`' has been set to `false`, the auto boot function is disabled.
- The diagnostics level of OpenBoot PROM is applied to the `diag_level` of the `addboard(8)` command and `moveboard(8)` command.

- The settings of the current modes of operation for the specified domain can be checked by using the `showdomainmode(8)` command. When you use the `showdomainmode(8)` command after the `setdomainmode(8)` command, it will display the pending modifications performed by the `setdomainmode(8)`, which might not yet be effective.

EXAMPLES

EXAMPLE 1 Sets the OpenBoot PROM diagnostic level for domain ID 0 to none.

```
XSCF> setdomainmode -d 0 -m diag=none
Diagnostic Level      :min      -> none
Secure Mode          :on       -> -
Autoboot             :on       -> -
CPU Mode             :auto     -> -
The specified modes will be changed.
Continue? [y|n]:y
configured.
Diagnostic Level      :none
Secure Mode          :on (host watchdog: available Break-signal:non-
receive)
Autoboot             :on (autoboot:on)
CPU Mode             :auto
```

EXAMPLE 2 Enables the auto boot function for domain ID 0. Automatically answers "y" to all prompts.

```
XSCF> setdomainmode -y -d 0 -m autoboot=on
Diagnostic Level      :none     -> -
Secure Mode          :on       -> -
Autoboot             :off      -> on
CPU Mode             :auto     -> -
The specified modes will be changed.
Continue? [y|n]:y
configured.
Diagnostic Level      :none
Secure Mode          :on (host watchdog: available Break-signal:non-
receive)
Autoboot             :on (autoboot:on)
CPU Mode             :auto
```

EXAMPLE 3 Cancels the `setdomainmode(8)` command execution that is in progress.

```
XSCF> setdomainmode -d 0 -m diag=none
Diagnostic Level      :min      -> none
Secure Mode          :on       -> -
Autoboot             :on       -> -
```

```
CPU Mode          :auto      -> -
The specified modes will be changed.
Continue? [y|n]:n
```

EXAMPLE 4 Enables the auto boot function for domain ID 0. Suppresses prompts, and automatically answers "y" to all prompts

```
XSCF> setdomainmode -q -y -d 0 -m autoboot=on
```

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

showdomainmode(8), showdomainstatus(8)

NAME	setdomparam - forcibly rewrite OpenBoot PROM environment variables										
SYNOPSIS	setdomparam [[-q] -{y n}] -d <i>domain_id</i> user-nvramrc setdomparam [[-q] -{y n}] -d <i>domain_id</i> security-mode setdomparam [[-q] -{y n}] -d <i>domain_id</i> set-defaults setdomparam -h										
DESCRIPTION	<p>The setdomparam(8) command rewrites OpenBoot PROM environment variables of a specified domain.</p> <p>The following OpenBoot PROM environment variables can be specified.</p> <table><tr><td>use-nvramrc?</td><td>Whether to execute the contents of the NVRAM at the boot or reboot of a domain.</td></tr><tr><td>security-mode?</td><td>Firmware security level setting</td></tr><tr><td>set-defaults</td><td>Whether to restore OpenBoot PROM environment variables to the settings at the time of shipment from the factory</td></tr></table>	use-nvramrc?	Whether to execute the contents of the NVRAM at the boot or reboot of a domain.	security-mode?	Firmware security level setting	set-defaults	Whether to restore OpenBoot PROM environment variables to the settings at the time of shipment from the factory				
use-nvramrc?	Whether to execute the contents of the NVRAM at the boot or reboot of a domain.										
security-mode?	Firmware security level setting										
set-defaults	Whether to restore OpenBoot PROM environment variables to the settings at the time of shipment from the factory										
Privileges	<p>You must have one of the following privileges to run this command:</p> <table><tr><td>platadm</td><td>Can run this command for all domains.</td></tr><tr><td>domainadm</td><td>Can run this command only for your managed domain.</td></tr></table> <p>Refer to setprivileges(8) for more information.</p>	platadm	Can run this command for all domains.	domainadm	Can run this command only for your managed domain.						
platadm	Can run this command for all domains.										
domainadm	Can run this command only for your managed domain.										
OPTIONS	<p>The following options are supported:.</p> <table><tr><td>-d <i>domain_id</i></td><td>Specifies the ID of the domain which OpenBoot PROM environment variables are rewritten. <i>domain_id</i> can be 0–23 depending on the system configuration. Note - The domain which is powered on cannot specify.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td>-y</td><td>Automatically answers "y" (yes) to all prompts.</td></tr></table>	-d <i>domain_id</i>	Specifies the ID of the domain which OpenBoot PROM environment variables are rewritten. <i>domain_id</i> can be 0–23 depending on the system configuration. Note - The domain which is powered on cannot specify.	-h	Displays usage statement. When used with other options or operands, an error occurs.	-n	Automatically answers "n" (no) to all prompts.	-q	Suppresses all messages to stdout, including prompts.	-y	Automatically answers "y" (yes) to all prompts.
-d <i>domain_id</i>	Specifies the ID of the domain which OpenBoot PROM environment variables are rewritten. <i>domain_id</i> can be 0–23 depending on the system configuration. Note - The domain which is powered on cannot specify.										
-h	Displays usage statement. When used with other options or operands, an error occurs.										
-n	Automatically answers "n" (no) to all prompts.										
-q	Suppresses all messages to stdout, including prompts.										
-y	Automatically answers "y" (yes) to all prompts.										

OPERANDS	The following operands are supported:
	<p>use-nvramrc Sets false for the use-nvramrc? environment variable.</p> <p>security-mode Sets none to the security-mode? environment variable.</p> <p>set-defaults Restores the OpenBoot PROM environment variables to the settings at the time of shipment from the factory</p>
EXTENDED DESCRIPTION	When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter " y " to execute the command or " n " to cancel the command.
EXAMPLES	<p>EXAMPLE 1 Sets false for the use-nvramrc? OpenBoot PROM environment variable of domain ID 0.</p> <pre>XSCF> setdomparam -d 0 use-nvramrc DomainIDs of domains that will be affected:00 OpenBoot PROM variable use-nvram will be set to false. Continue? [y n]:y</pre> <p>EXAMPLE 2 Sets none for the security-mode OpenBoot PROM environment variable of domain ID 0.</p> <pre>XSCF> setdomparam -d 0 security-mode DomainIDs of domains that will be affected:00 OpenBoot PROM variable security-mode will be set to none. Continue? [y n]:y</pre> <p>EXAMPLE 3 Initializes the OpenBoot PROM environment variables of the domain ID 0 to the settings at the time of shipment from the factory.</p> <pre>XSCF> setdomparam -d 0 set-defaults DomainIDs of domains that will be affected:00 All OpenBoot PROM variable will be reset to original default values. Continue? [y n]:y</pre> <p>EXAMPLE 4 Initializes the OpenBoot PROM environment variables of the domain ID 1 to the settings at the time of shipment from the factory. Automatically replies with "y" without displaying the prompt.</p> <pre>XSCF> setdomparam -q -y -d 1 set-defaults</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>

NAME	setdscp - set the IP address assignments for the Domain to Service Processor Communications Protocol (DSCP)
SYNOPSIS	<pre> setdscp -v setdscp [-f] [-v] [-q] [-Y n] -i <i>address</i> -m <i>netmask</i> setdscp [-f] [-v] [-q] [-Y n] -s -i <i>address</i> setdscp [-f] [-v] [-q] [-Y n] -d <i>domain_id</i> -i <i>address</i> setdscp -h </pre>
DESCRIPTION	<p>setdscp(8) assigns IP addresses to the DSCP links.</p> <p>setdscp is intended for initial configuration only. Domains should not be powered on when running this command.</p> <p>Note – You are required to reboot the Service Processor after modifying the DSCP IP address assignment using this command, and before the IP addresses you specified are used.</p> <p>You can specify a network address for use by all of the DSCP links using the <i>-i address</i> and <i>-m netmask</i> arguments. In this mode of operation, the IP addresses used by the Service Processor and each domain-specific DSCP link are automatically selected from within the range of addresses indicated by the network address. The specified netmask must be a subset of the default netmask based on network class.</p> <p>You can set the IP address of an individual, domain-specific DSCP link independently of all other DSCP address settings using the <i>-d domain_id</i> and <i>-i address</i> arguments.</p> <p>You can set the IP address of the Service Processor independently of all other DSCP address settings using the <i>-s</i> and <i>-i address</i> arguments.</p> <p>If DSCP has been previously configured, the current settings are displayed. If they are correct, they can be accepted by pressing the Enter key.</p> <p>An error occurs if you set the address of the Service Processor or a domain to a value that either is out of range for a previously configured network address, or conflicts with an address already assigned to another domain or the Service Processor. You can override such errors by using the <i>-f</i> option.</p> <p>Using the <i>-f</i> option with a conflicting IP address may cause misconfiguration. You must resolve such conflicts for DSCP to operate properly.</p> <p>With no arguments, setdscp enters an interactive mode that prompts you to enter all of the DSCP IP address information sequentially. (The noninteractive method, setting up the IP addresses of all domains using the <i>-i</i> and <i>-m</i> options, is preferred.) After inputting all the requested settings, you can review the settings and decide whether to commit them to the DSCP configuration database.</p>

	Note – The <code>-y</code> and <code>-n</code> options can be used (with or without the <code>-q</code> option) when running <code>setdscp</code> in interactive mode.																						
Privileges	<p>You must have <code>platadm</code> or <code>fielddeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>																						
OPTIONS	<p>The following options are supported:</p> <table><tr><td><code>-d domain_id</code></td><td>Domain identifier. Must be used with <code>-i address</code> option. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr><tr><td><code>-f</code></td><td>Forces <code>setdscp</code> to ignore out of range and address conflict errors and commits the new settings.</td></tr><tr><td><code>-h</code></td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td><code>-i address</code></td><td>Specifies an IP address in the IPv4 dotted decimal format. When used with <code>-m netmask</code> it specifies a network address for all DSCP links in the system. When used with <code>-d domain_id</code> it specifies an individual, domain-specific IP address for use by DSCP. When used with <code>-s</code>, it specifies the IP address used for the Service Processor end of all DSCP links in the system.</td></tr><tr><td><code>-m netmask</code></td><td>Specifies a netmask address for all DSCP links in the system. Must be used with <code>-i address</code>.</td></tr><tr><td><code>-n</code></td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td><code>-q</code></td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td><code>-s</code></td><td>Must be used with the <code>-i address</code> option. Specifies the Service Processor end of all DSCP links in the system.</td></tr><tr><td><code>-v</code></td><td>Displays a detailed message. If this option is specified with the <code>-q</code> option, the <code>-v</code> option is ignored.</td></tr><tr><td><code>-y</code></td><td>Automatically answers "y" (yes) to all prompts.</td></tr></table>	<code>-d domain_id</code>	Domain identifier. Must be used with <code>-i address</code> option. <i>domain_id</i> can be 0–23 depending on the system configuration.	<code>-f</code>	Forces <code>setdscp</code> to ignore out of range and address conflict errors and commits the new settings.	<code>-h</code>	Displays usage statement.		When used with other options or operands, an error occurs.	<code>-i address</code>	Specifies an IP address in the IPv4 dotted decimal format. When used with <code>-m netmask</code> it specifies a network address for all DSCP links in the system. When used with <code>-d domain_id</code> it specifies an individual, domain-specific IP address for use by DSCP. When used with <code>-s</code> , it specifies the IP address used for the Service Processor end of all DSCP links in the system.	<code>-m netmask</code>	Specifies a netmask address for all DSCP links in the system. Must be used with <code>-i address</code> .	<code>-n</code>	Automatically answers "n" (no) to all prompts.	<code>-q</code>	Suppresses all messages to stdout, including prompts.	<code>-s</code>	Must be used with the <code>-i address</code> option. Specifies the Service Processor end of all DSCP links in the system.	<code>-v</code>	Displays a detailed message. If this option is specified with the <code>-q</code> option, the <code>-v</code> option is ignored.	<code>-y</code>	Automatically answers "y" (yes) to all prompts.
<code>-d domain_id</code>	Domain identifier. Must be used with <code>-i address</code> option. <i>domain_id</i> can be 0–23 depending on the system configuration.																						
<code>-f</code>	Forces <code>setdscp</code> to ignore out of range and address conflict errors and commits the new settings.																						
<code>-h</code>	Displays usage statement.																						
	When used with other options or operands, an error occurs.																						
<code>-i address</code>	Specifies an IP address in the IPv4 dotted decimal format. When used with <code>-m netmask</code> it specifies a network address for all DSCP links in the system. When used with <code>-d domain_id</code> it specifies an individual, domain-specific IP address for use by DSCP. When used with <code>-s</code> , it specifies the IP address used for the Service Processor end of all DSCP links in the system.																						
<code>-m netmask</code>	Specifies a netmask address for all DSCP links in the system. Must be used with <code>-i address</code> .																						
<code>-n</code>	Automatically answers "n" (no) to all prompts.																						
<code>-q</code>	Suppresses all messages to stdout, including prompts.																						
<code>-s</code>	Must be used with the <code>-i address</code> option. Specifies the Service Processor end of all DSCP links in the system.																						
<code>-v</code>	Displays a detailed message. If this option is specified with the <code>-q</code> option, the <code>-v</code> option is ignored.																						
<code>-y</code>	Automatically answers "y" (yes) to all prompts.																						

EXAMPLES



Caution – The IP addresses shown in the following examples are examples only. When choosing DSCP IP addresses avoid choosing addresses that are used elsewhere in your local area network (LAN). For information about DSCP IP addresses refer to the System Configuration chapter of the Administration Guide.

EXAMPLE 1 Assigning All DSCP Addresses

```
XSCF> setdscp -y -i 10.1.1.0 -m 255.255.255.0
Commit these changes to the database? [y|n] : y
```

EXAMPLE 2 Assigning an Alternative IP address to Domain 1

```
XSCF> setdscp -d 1 -i 10.1.1.26
Commit these changes to the database? [y|n] : y
```

EXAMPLE 3 Specifying a Netmask Address With -q and -y Options

```
XSCF> setdscp -q -y -i 10.1.1.0 -m 255.255.255.0
```

EXAMPLE 4 Setting DSCP Addresses Using Interactive Mode

The default value displayed by each prompt in interactive mode matches the previous configuration. This makes it possible to interactively review and modify DSCP configuration. In this example you only input the network address portion and then press the Enter key to accept all subsequent settings.

```
XSCF> setdscp
DSCP network [0.0.0.0          ] > 10.1.1.0

DSCP netmask [255.0.0.0        ] > 255.255.255.0

XSCF address [10.1.1.1         ] > [Enter]
Domain #00 address [10.1.1.2       ] > [Enter]
Domain #01 address [10.1.1.3       ] > [Enter]
Domain #02 address [10.1.1.4       ] > [Enter]
Domain #03 address [10.1.1.5       ] > [Enter]
Domain #04 address [10.1.1.6       ] > [Enter]
Domain #05 address [10.1.1.7       ] > [Enter]
Domain #06 address [10.1.1.8       ] > [Enter]
Domain #07 address [10.1.1.9       ] > [Enter]
Domain #08 address [10.1.1.10      ] > [Enter]
Domain #09 address [10.1.1.11      ] > [Enter]
Domain #10 address [10.1.1.12      ] > [Enter]
Domain #11 address [10.1.1.13      ] > [Enter]
Domain #12 address [10.1.1.14      ] > [Enter]
Domain #13 address [10.1.1.15      ] > [Enter]
Domain #14 address [10.1.1.16      ] > [Enter]
Domain #15 address [10.1.1.17      ] > [Enter]
Domain #16 address [10.1.1.18      ] > [Enter]
Domain #17 address [10.1.1.19      ] > [Enter]
Domain #18 address [10.1.1.20      ] > [Enter]
Domain #19 address [10.1.1.21      ] > [Enter]
Domain #20 address [10.1.1.22      ] > [Enter]
```

```
Domain #21 address [10.1.1.23    ] > [Enter]
Domain #22 address [10.1.1.24    ] > [Enter]
Domain #23 address [10.1.1.25    ] > [Enter]
Commit these changes to the database [y|n]? y
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

showdscp(8)

NAME	setdualpowerfeed - set dual power feed mode								
SYNOPSIS	setdualpowerfeed -s <i>key</i> setdualpowerfeed -h								
DESCRIPTION	<p>The setdualpowerfeed(8) command specifies dual power feed mode in the system.</p> <p>Note – The ability to enable and disable dual power feed is available on M3000/M4000/M5000 servers only. However, dual power feed mode cannot be used with 100V power on M4000/M5000 servers. When the optional power cabinet for dual power feed is connected on M8000/M9000 servers, it automatically configures dual power feed mode. For details about the setting of dual power feed, see the <i>Installation Guide</i> for your server.</p> <p>To enable the dual power feed mode, you need to execute the rebootxsxcf(8) command or turn off and on the input power.</p> <p>To disable the dual power feed mode, you need to turn off and on the input power.</p>								
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-s <i>key</i></td><td>Sets dual power feed mode in the system. Either of the following can be specified for <i>key</i>:</td></tr><tr><td>enable</td><td>Enables the dual power feed mode.</td></tr><tr><td>disable</td><td>Disables dual power feed mode.</td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-s <i>key</i>	Sets dual power feed mode in the system. Either of the following can be specified for <i>key</i> :	enable	Enables the dual power feed mode.	disable	Disables dual power feed mode.
-h	Displays usage statement. When used with other options or operands, an error occurs.								
-s <i>key</i>	Sets dual power feed mode in the system. Either of the following can be specified for <i>key</i> :								
enable	Enables the dual power feed mode.								
disable	Disables dual power feed mode.								
EXTENDED DESCRIPTION	<p>The state of the current dual power feed mode can be checked by using the showdualpowerfeed(8) command.</p>								
EXAMPLES	<p>EXAMPLE 1 Disables dual power feed mode in the system. Before rebooting the system, a message is displayed.</p> <pre>XSCF> setdualpowerfeed -s disable enable -> disable</pre> <p>NOTE: Dual power feed will be disabled the next time the platform is powered on.</p>								

EXAMPLE 2 Enables dual power feed mode in the system. Before rebooting the system, a message is displayed.

```
XSCF> setdualpowerfeed -s enable  
disable -> enable
```

NOTE: Dual power feed will be enabled the next time the platform is powered on.

EXIT STATUS The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO `showdualpowerfeed (8)`

NAME	setemailreport - set up the email report configuration data
SYNOPSIS	<pre>setemailreport [-v] [-t]</pre> <pre>setemailreport [-s <i>variable=value</i>]...</pre> <pre>setemailreport -h</pre>
DESCRIPTION	<p>setemailreport(8) sets up email reporting configuration data for remote maintenance. Once the configuration data is set up, it is used by the fault management daemon to send email reports as required.</p> <p>If you run the setemailreport command without specifying any options, you will be prompted to answer whether email reporting is to be enabled. If enabled, you will be prompted to provide a list of email addresses.</p> <p>Where:</p> <ul style="list-style-type: none"> -a Add recipient -d Delete recipient -r Replace recipient (Default) <p>You can set up email reporting noninteractively by using the -s option.</p> <p>After the email server and port have been set up using setsmtplib(8), you can use setemailreport -t to send a test email message.</p>
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) and for more information.</p>

OPTIONS

The following options are supported:

- h Displays usage statement.

When used with other options or operands, an error occurs.
- s *variable=value* Configures email reporting.

Valid entries for *variable* are:
 enable
 recipient

Valid *value* entries for enable are:
 yes
 no

Valid *value* entries for recipient are:
 Any valid company email account
- t Sends test email.
- v Specifies verbose output.

EXAMPLES

EXAMPLE 1 Enable Email Reporting Interactively

```
XSCF> setemailreport
Enable Email Reporting? [no]:yes
Email Recipient Address [useradm@company.com]: adm2@company.com
Do you want to send a test mail now (Yes/No): no
```

EXAMPLE 2 Adding an Email Report Recipient Using -a

```
XSCF> setemailreport
Enable Email Reporting? [yes]:[RETURN]
Email Recipient Address[useradmin@company.com]: -a adm2@company.com
```

EXAMPLE 3 Deleting an Email Report Recipient Using -d

```
XSCF> setemailreport
Enable Email Reporting? [yes]:[RETURN]
Email Recipient Address[adm2@company.com]: -d adm2@company.com
```

EXAMPLE 4 Enable Email Reporting Noninteractively

```
XSCF> setemailreport -s enable=yes -s \
recipient="useradm@company.com, adm2@company.com"
```


EXAMPLE 5 Sending Test Email

```
XSCF> setemailreport -t
....Sending test email to useradm@company.com
[Email contents shown below]
Host Name: jupiter
Send Timestamp: 04-20-2006 16:31:45 PST
Mail Server: 10.4.1.1
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

setsmtp(8), **showemailreport**(8)

setemailreport(8)



NAME	sethostname - set a host name and a DNS domain name for an XSCF unit
SYNOPSIS	<p>sethostname <i>xscfu hostname</i></p> <p>sethostname -d <i>domainname</i></p> <p>sethostname -h</p>
DESCRIPTION	<p>sethostname(8) command sets a host name and a DNS domain name for an XSCF unit.</p> <p>In M8000/M9000 servers, the DNS domain name becomes common to XSCF units. The host name can be specified for each XSCF unit.</p>
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-d <i>domainname</i> Specifies a DNS domain name to be set for the XSCF unit. The <i>domainname</i> is specified in up to 254 characters with the <i>hostname</i> included, with label elements delimited by a "." (period). If a domain name exceeding 254 characters is specified, an error occurs. A label element can contain alphanumeric characters and "-". Each label element must always begin with an alphabetic character and end with an alphanumeric character. If "localdomain" specified, an error occurs.</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p>

OPERANDS	The following operands are supported:				
	<p><i>hostname</i> Specifies a host name to be set for the XSCF unit. The <i>hostname</i> is specified in up to 64 characters, not in Fully Qualified Domain Name (FQDN) but in an abbreviated form. If a host name exceeding 64 characters is specified, an error occurs. Alphanumeric character and "-" can be used. However, a host name must always begin with an alphabetic character and end with an alphanumeric character. If "localhost" specified, an error occurs.</p> <p><i>xscfu</i> Specifies the name of the XSCF unit to be set. The following values can be specified, depending on the system configuration. If no value is specified, an error occurs.</p> <table> <tr> <td><code>xscf#0</code></td><td>XSCF unit 0</td></tr> <tr> <td><code>xscf#1</code></td><td>XSCF unit 1 (In M8000/M9000 servers)</td></tr> </table>	<code>xscf#0</code>	XSCF unit 0	<code>xscf#1</code>	XSCF unit 1 (In M8000/M9000 servers)
<code>xscf#0</code>	XSCF unit 0				
<code>xscf#1</code>	XSCF unit 1 (In M8000/M9000 servers)				
EXTENDED DESCRIPTION	<ul style="list-style-type: none"> ■ The following situations result in an error by the <code>applynetwork(8)</code> command: <ul style="list-style-type: none"> ■ Both host name and domain name are not set. ■ On M8000/M9000 servers, the host name is not set to both <code>xscf#0</code> and <code>xscf#1</code>. ■ The total number of characters of the DNS domain name that you set by using the <code>sethostname(8)</code> command and the search path that you set by using the <code>setnameserver(8)</code> command exceeds 256. ■ To apply the host name and the DNS domain name to XSCF, execute the <code>applynetwork(8)</code> command. Then, use the <code>rebootxscf(8)</code> command to reset XSCF to make the changes to the XSCF permanent. ■ The currently set host name and DNS domain name of the XSCF unit can be checked by using the <code>shownetwork(8)</code> command. 				
EXAMPLES	<p>EXAMPLE 1 Sets the host name <code>scf0-hostname</code> for XSCF unit 0.</p> <pre>XSCF> sethostname xscf#0 scf0-hostname</pre> <p>EXAMPLE 2 Sets the DNS domain name <code>example.com</code> for XSCF unit.</p> <pre>XSCF> sethostname -d example.com</pre>				
EXIT STATUS	<p>The following exit values are returned:</p> <table> <tr> <td>0</td><td>Successful completion.</td></tr> <tr> <td>>0</td><td>An error occurred.</td></tr> </table>	0	Successful completion.	>0	An error occurred.
0	Successful completion.				
>0	An error occurred.				
SEE ALSO	<code>applynetwork(8)</code> , <code>setnameserver(8)</code> , <code>showhostname(8)</code>				

NAME	sethttps - start or stop the HTTPS service, which is used in the XSCF network. This command also performs authentication-related settings
SYNOPSIS	<p>sethttps [[-q] -{y n}] -c enable</p> <p>sethttps -c disable</p> <p>sethttps -c gencsr <i>country state province locality organization organizationalunit common e-mail</i></p> <p>sethttps [[-q] -{y n}] -c genserverkey</p> <p>sethttps -c importca</p> <p>sethttps [[-q] -{y n}] -c selfsign <i>country state province locality organization organizationalunit common e-mail</i></p> <p>sethttps -h</p>
DESCRIPTION	<p>The sethttps(8) command starts or stops the HTTPS service, which is used in the XSCF network. Also, this command performs authentication-related settings for authentication used in the HTTPS service.</p> <p>The following authentication-related items can be set:</p> <ul style="list-style-type: none">■ Configuring the self-certification authority■ Creating a self-signed web server certificate■ Creating the private key of the web server■ Creating a web server certificate signing request (CSR) to an external certification authority■ Importing a web server certificate signed by an external certification authority <p>XSCF does not support HTTP service. Only HTTPS service is supported.</p>
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>

OPTIONS

The following options are supported:

<code>-c {enable disable}</code>	Specify whether to enable the HTTPS service. One of the following values can be specified. If none of them is specified, an error occurs.
<code>enable</code>	Starts the HTTPS service.
<code>disable</code>	Stops the HTTPS service.
<code>-c gencsr</code>	Creates a CSR.
<code>-c genserverkey</code>	Creates the private key of the web server.
<code>-c importca</code>	Imports a web server certificate signed by the certification authority to the XSCF.
<code>-c selfsign</code>	Configures the self-certification authority. Also, this operand creates a self-signing web server certificate.
<code>-h</code>	Displays usage statement. When used with other options or operands, an error occurs.
<code>-n</code>	Automatically answers "n" (no) to all prompts.
<code>-q</code>	Suppresses all messages to stdout, including prompts.
<code>-y</code>	Automatically answers "y" (yes) to all prompts.

OPERANDS

The following operands are supported:

<i>common</i>	Specifies common names, such as the creator name and the host name of a server, using up to 64 characters. If " <code>-c selfsign</code> " is specified, the value cannot be omitted.
<i>country</i>	Specifies a country name with a two-letter code such as JP or US. If " <code>-c selfsign</code> " is specified, the value cannot be omitted.
<i>e-mail</i>	Specifies an E-mail address using up to 64 characters.
<i>locality</i>	Specifies a city name and so on using up to 64 characters.
<i>organization</i>	Specifies a company name and so on using up to 64 characters. If " <code>-c selfsign</code> " is specified, the value cannot be omitted.
<i>organizationalunit</i>	Specifies an organization such as a section or department using up to 64 characters.
<i>state province</i>	Specifies the name of a state, province, and so on using up to 64 characters. If " <code>-c selfsign</code> " is specified, the value cannot be omitted.

Operand formatting rules:

EXTENDED DESCRIPTION

- If you omit the value, enclose a space in single or double quotation marks; for example, " ".
- If you include symbols or blanks in a value, enclose the value in single or double quotation marks; for example, "Kawasaki city".
- If you include a backslash or dollar mark in a value, put a backslash before the symbol; for example, "\\" or "\\$".
- When the HTTPS server is enabled or there is a private certificate authority, web server certificate, or web server secret key, a prompt to confirm execution of the command with the specified options is displayed. Enter **"y"** to execute the command or **"n"** to cancel the command.
- The CSR is overwritten.
- In case the XSCF unit is duplicated configuration, the setting automatically reflected to the standby XSCF. When there's a defect on the standby XSCF, it leads to an error.
- When using an external certification authority, it leads to an error in the following cases.
 - When the "-c gencsr" option or the "-c enable" option is executed, without executing the "-c genserverkey" option.
Create the private key of the web server using the "-c genserverkey" option.
 - When the "-c enable" option is executed, without executing the "-c importca" option.
Import a web server certificate using the "-c importca" option.
 - When the web server certificate which imported by executing the "-c importca" option does not correspond to the private key of the web server which has been created by executing the "-c genserverkey" option.
Confirm the validity of the web server certificate.
- The size of the file to be generated by sethttps(8) grows with total character count typed in the operands of configuring the self-certification authority and creating a self-signed web server certificate, and creating a CSR. If the file to be generated is too large for XSCF, the command fails with an error. If you see this error, reduce the number of characters in the operands and execute the sethttps(8) command again.
- When you use sethttps(8) command to disable the HTTPS service (sethttps -c disable), the HTTPS service is disabled immediately. At this time, any opened HTTPS sessions are terminated.
For all other settings using the sethttps(8) command, you must reboot the XSCF using the rebootxscf(8) command for the changes to take effect.

EXAMPLES

- Using the `showhttps(8)` command you can check the current settings in relation to the HTTPS service.

EXAMPLE 1 Starts the HTTPS service.

```
XSCF> sethttps -c enable
Continue? [y|n] :y
Please reset the XSCF by rebootxscf to apply the https settings.
```

EXAMPLE 2 Stops the HTTPS service.

```
XSCF> sethttps -c disable
```

EXAMPLE 3 Creates a CSR with the following settings: *country*: JP, *state|province*: Kanagawa, *locality*: Kawasaki, *organization*: Example, *organizationalunit*: development, *common*: scf-host, *e-mail*: abc@example.com

```
XSCF> sethttps -c genscr JP Kanagawa Kawasaki Example \
development scf-host abc@example.com
```

EXAMPLE 4 Creates the self-certification authority with the following settings, and creates a self-signed web server certificate: *country*: JP, *state|province*: Kanagawa, *locality*: Kawasaki, *organization*: Example, *organizationalunit*: development, *common*: scf-host, *e-mail*: abc@example.com

```
XSCF> sethttps -c selfsign JP Kanagawa Kawasaki Example \
development scf-host abc@example.com
CA key and CA cert already exist. Do you still wish to update? [y|n] :y
Enter passphrase:
Verifying - Enter passphrase:
```

EXAMPLE 5 Creates the private key of the web server.

```
XSCF> sethttps -c genserverkey
Server key already exists. Do you still wish to update? [y|n] :y
Enter passphrase:
Verifying - Enter passphrase:
```

EXAMPLE 6 Creates the private key of the web server. Automatically replies with "y" to the prompt.

```
XSCF> sethttps -c genserverkey -y
Server key already exists. Do you still wish to update? [y|n] :y
Enter passphrase:
Verifying - Enter passphrase:
```


EXAMPLE 7 Creates the private key of the web server. Automatically replies with "y" without displaying the prompt.

```
XSCF> sethttps -c genserverkey -q -y
Enter passphrase:
Verifying - Enter passphrase:
```

EXAMPLE 8 Imports the web server certificate. To exit, press the Enter key and then press "Ctrl" and "D".

```
XSCF> sethttps -c importca
Please import a certificate:
-----BEGIN CERTIFICATE-----
MIIDdTCCAt6gAwIBAgIBATANBgkqhkiG9w0BAQQFADCBgTELMakGA1UEBhMCamox
DjAMBgNVBAGTBXN0YXRlMREwDwYDVQQHEWhsb2Nhbg10eTEVMBMGA1UEChMMb3Jn
YW5pemF0aW9uMQ8wDQYDVQQLEwZvcmdhbmksDzANBgNVBAMTBmNvbW1vbjEWMBQg
CSqGSIB3DQEJARYHZWUubWpbdAeFw0wNjA1MzAwNTI5MTVaFw0wNjA1MjcwNTI5
MTVaMG4xCzAJBgNVBAYTAmpqMQ4wDAYDVQQIEwVzdGF0ZTEVMBMGA1UEChMMb3Jn
YW5pemF0aW9uMQ8wDQYDVQQLEwZvcmdhbmksDzANBgNVBAMTBmNvbW1vbjEWMBQg
CSqGSIB3DQEJARYHZWUubWpbdCBnzANBgkqhkiG9w0BAQEFAAOBjQAwgYkCgYEA
nkPntf+TjYtyKlNYFbO/YavFpUzkYTLHdt0Fbz/tZmGd3e6Jn34A2W9EC7D9hjLs
j+kAP41A16wFwG07KP3H4iImX0Uysj19Hyk4jLBU51sw8JqvT2utTjltv5mFPKL6
5A51Yuhf8OGrR+bYGli6H1a6RPm1MSD7Z0AGDxR0eY0CAwEAaOACQ0wggEJMAK
GAlUdEwCMAAwLAYJYIZIAyb4QgENBB8WHU9wZW5TU0wgr2VuZXXJhdGVkIENlcnRp
ZmljYXRlMB0GA1UdDgQWBBI7QyZa8zpt1H16EfLR+EwDCBrgYDVR0jBIGm
MIGjgBTnQYs6jzD7wdDhk7wsFeJGvAUtTaGBh6SBhDCBgTELMakGA1UEBhMCamox
DjAMBgNVBAGTBXN0YXRlMREwDwYDVQQHEWhsb2Nhbg10eTEVMBMGA1UEChMMb3Jn
YW5pemF0aW9uMQ8wDQYDVQQLEwZvcmdhbmksDzANBgNVBAMTBmNvbW1vbjEWMBQg
CSqGSIB3DQEJARYHZWUubWpbiIBADANBgkqhkiG9w0BAQQFAAOBQCqBFbo88Hi
yvOUyW8E8111AbuA04IrnjHI4cjHq9NuSX1w8mJsXKTVMx3WZCJpJDC+f/WoRMKw
R+OpXAVQvb2tjIn3k099dq+begECO4mwknW1t7QI7A1BkcW2/MkOolIRA6iPlZwg
JoPmwAbrGyAvGUTdzUoyIH0j17dRQrVIRA==
-----END CERTIFICATE-----
[Enter]
[Ctrl] and [D]
```

EXAMPLE 9 Specifies "\development" to organizationunit to create a CSR.

```
XSCF> sethttps -c gencsr JP Kanagawa Kawasaki Example \
"\\development" scf-host abc@example.com
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

sethttps(8)

SEE ALSO | **rebootxscf(8)**, **showhttps(8)**

NAME	setldap - configure the Service Processor as a Lightweight Directory Access Protocol (LDAP) client												
SYNOPSIS	setldap [-b <i>bind</i>] [-B <i>baseDN</i>] [-c <i>certchain</i>] [-p] [-s <i>servers</i>] [-t <i>user</i>] -T <i>timeout</i> setldap -h												
DESCRIPTION	<p>setldap(8) allows you to configure the Service Processor as an LDAP client.</p> <p>Note – The LDAP client supports passwords only in CRYPT format, either UNIX Crypt or MD5. Therefore passwords on LDAP server must support it, as well. Refer to the <i>Administration Guide</i> for more information. Also note that an XSCF user account user name cannot match an LDAP user name, and an XSCF user account (UID) number cannot match an LDAP UID number.</p>												
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>												
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-B <i>baseDN</i></td><td>Specifies distinguished name for the search base. Maximum character length is 128 characters.</td></tr> <tr> <td>-b <i>bind</i></td><td>Sets the identity to use when binding to the LDAP server. Maximum character length is 128 characters</td></tr> <tr> <td>-c <i>certchain</i></td><td>Imports an LDAP server certificate chain from the remote file specified in <i>certchain</i>. The certificate chain must be in PEM format. Remote files are specified using the standard scp syntax, that is, [user@]host:file., and imported using scp. If the copy requires a user password you will be prompted for it. Use of this option implicitly enables the use of Transport Layer Security (TLS) when connecting to LDAP. This may be disabled by specifying <i>certchain</i> as none. The certificate chain must be 64 Kbytes in size or less, and it must be valid or it will be rejected.</td></tr> <tr> <td>-h</td><td>Displays usage statement.</td></tr> <tr> <td></td><td>When used with other options or operands, an error occurs.</td></tr> <tr> <td>-p</td><td>Sets a password to use when binding to the LDAP server. You will be prompted for the password.</td></tr> </table>	-B <i>baseDN</i>	Specifies distinguished name for the search base. Maximum character length is 128 characters.	-b <i>bind</i>	Sets the identity to use when binding to the LDAP server. Maximum character length is 128 characters	-c <i>certchain</i>	Imports an LDAP server certificate chain from the remote file specified in <i>certchain</i> . The certificate chain must be in PEM format. Remote files are specified using the standard scp syntax, that is, [user@]host:file., and imported using scp. If the copy requires a user password you will be prompted for it. Use of this option implicitly enables the use of Transport Layer Security (TLS) when connecting to LDAP. This may be disabled by specifying <i>certchain</i> as none. The certificate chain must be 64 Kbytes in size or less, and it must be valid or it will be rejected.	-h	Displays usage statement.		When used with other options or operands, an error occurs.	-p	Sets a password to use when binding to the LDAP server. You will be prompted for the password.
-B <i>baseDN</i>	Specifies distinguished name for the search base. Maximum character length is 128 characters.												
-b <i>bind</i>	Sets the identity to use when binding to the LDAP server. Maximum character length is 128 characters												
-c <i>certchain</i>	Imports an LDAP server certificate chain from the remote file specified in <i>certchain</i> . The certificate chain must be in PEM format. Remote files are specified using the standard scp syntax, that is, [user@]host:file., and imported using scp. If the copy requires a user password you will be prompted for it. Use of this option implicitly enables the use of Transport Layer Security (TLS) when connecting to LDAP. This may be disabled by specifying <i>certchain</i> as none. The certificate chain must be 64 Kbytes in size or less, and it must be valid or it will be rejected.												
-h	Displays usage statement.												
	When used with other options or operands, an error occurs.												
-p	Sets a password to use when binding to the LDAP server. You will be prompted for the password.												

- s servers** Sets the primary and secondary LDAP servers and ports. *servers* is a comma-separated list of *server:port*. Ports are specified numerically and servers can be specified either by name or IP address in the dotted decimal format. For example, `10.8.31.14.636,company:636`. The first server in the list is the primary. Server names must be resolvable. Maximum name length is 128 characters.
- t user** Tests connections to all configured LDAP servers. Attempts to retrieve the password data for the specified user from each configured server and reports success or failure in each case.
- T timeout** Sets the maximum time allowed for an LDAP search before it returns search results.

EXAMPLES**EXAMPLE 1** Configuring Bind Name

```
XSCF> setldap -b user -p
Password: <Enter password>
XSCF> showldap
Bind Name:                user
Base Distinguished Name:  Not set
LDAP Search Timeout:     0
Bind Password:           Set
LDAP Servers:            None
CERTS:                   None
```

EXAMPLE 2 Configuring Base Distinguished Name

```
XSCF> setldap -B ou=people,dc=company,dc=com
XSCF> showldap
Bind Name:                user
Base Distinguished Name:  ou=people,dc=company,dc=com
LDAP Search Timeout:     0
Bind Password:           Set
LDAP Servers:            None
CERTS:                   None
```

EXAMPLE 3 Setting the LDAP Timeout

```
XSCF> setldap -T 60
XSCF> showldap
Bind Name:                user
Base Distinguished Name:  ou=people,dc=company,dc=com
LDAP Search Timeout:     60
```

```

Bind Password:      Set
LDAP Servers:       None
CERTS:              None

```

EXAMPLE 4 Setting the LDAP Server

```

XSCF> setldap -s ldap://company.com,ldaps://company2.com
XSCF> showldap
Bind Name:          user
Base Distinguished Name: ou=people,dc=company,dc=com
LDAP Search Timeout: 60
Bind Password:      Set
LDAP Servers:       ldap://company.com:389 ldaps://company2.com:636
CERTS:              None

```

EXAMPLE 5 Importing a Certificate

```

XSCF> setldap -c user@remote.machine:/path/to/cacert.pem
XSCF> showldap
Bind Name:          user
Base Distinguished Name: ou=people,dc=company,dc=com
LDAP Search Timeout: 60
Bind Password:      Set
LDAP Servers:       ldap://company.com:389 ldaps://company2.com:636
CERTS:              cacert.pem

```

EXAMPLE 6 Testing the LDAP connection

```

XSCF> setldap -t jsmith
company.com:389 PASSED

```

EXIT STATUS

The following exit values are returned:

```

0              Successful completion.
>0            An error occurred.

```

SEE ALSO

setlookup(8), showldap(8)

setldap(8)



NAME	setldapssl - configure LDAP/SSL
SYNOPSIS	<p>setldapssl enable disable</p> <p>setldapssl loadcert [[-q] -{y n}] [-i n] [-u <i>username</i>] [-p <i>proxy</i>] [-t <i>proxy_type</i>]] <i>URI</i></p> <p>setldapssl loadcert [[-q] -{y n}] [-i n] console</p> <p>setldapssl rmcert [[-q] -{y n}] [-i n]</p> <p>setldapssl group administrator -i n name [<i>groupname</i>]</p> <p>setldapssl group operator -i n name [<i>groupname</i>]</p> <p>setldapssl group custom -i n name [<i>groupname</i>]</p> <p>setldapssl group custom -i n roles [<i>privileges</i>]</p> <p>setldapssl userdomain -i n [<i>domainname</i>]</p> <p>setldapssl defaultrole [<i>privileges</i>]</p> <p>setldapssl timeout <i>seconds</i></p> <p>setldapssl server [-i n] [<i>ipaddr</i> [:<i>port</i>]]</p> <p>setldapssl logdetail none high medium low trace</p> <p>setldapssl log [[-q] -{y n}] clear</p> <p>setldapssl strictcertmode usermapmode enable disable</p> <p>setldapssl usermap attributeInfo binddn bindpw searchbase <i>value</i></p> <p>setldapssl default [[-q] -{y n}]</p> <p>setldapssl -h</p>
DESCRIPTION	<p>setldapssl(8) configures LDAP/SSL. To enable or disable LDAP/SSL, execute only the command and one of those operands. To enable or disable LDAP/SSL strictcertmode or usermapmode, specify the mode along with enable or disable.</p> <p>To clear or unset a property, issue a setldapssl command with no value for the operand. For example, setldapssl group custom -i 1 name clears the name property from custom group 1, and setldapssl usermap searchbase clears the searchbase property from the optional user mapping settings. If a property is not set, it is displayed with no value.</p> <p>Note – If you are an Active Directory or LDAP/SSL user, do not upload a public key. If one has already been uploaded, use the following command to delete it: XSCF> setssh -c delpubkey -a -u proxyuser</p>

Privileges	<p>You must have <code>useradm</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported:</p> <ul style="list-style-type: none"> <code>-h</code> Displays usage statement. When used with other options or operands, an error occurs. <code>-i n</code> Sets an index marker, value 1 - 5. <code>-n</code> Automatically answers "n" (no) to all prompts. <code>-p</code> Specifies the proxy server to be used for transfers. The default transfer type is <code>http</code>, unless modified using the <code>-t proxy_type</code> option. The value for proxy must be in the format <i>servername:port</i>. See EXAMPLE 12. <code>-q</code> Suppresses all messages to stdout, including prompts. <code>-t</code> Use with the <code>-p</code> option to specify proxy type as <code>http</code>, <code>socks4</code>, or <code>socks5</code>. The default is <code>http</code>. <code>-u</code> Specifies the user name when logging in to a remote ftp or http server that requires authentication. Prompts for a password. See EXAMPLE 13. <code>-y</code> Automatically answers "y" (yes) to all prompts.

OPERANDS	The following operands are supported:	
enable disable	When used with no other operands, enable or disable LDAP/SSL.	
loadcert	loadcert console prompts for certificate information to be entered at the console. Use this command to paste certificate information copied from a file. Terminate input with CTRL-D.	
	loadcert <i>URI</i> loads a certificate file for the LDAP/SSL server. Supported formats for <i>URI</i> are:	
	<code>http://server[:port]/path/file</code>	
	<code>https://server[:port]/path/file</code>	
	<code>ftp://server[:port]/path/file</code>	
	<code>file:///media/usb_msd/path/file</code>	
rmcert	Delete certificate for an LDAP/SSL server. strictcertmode must be in the disabled state for a certificate to be removed.	
group administrator	Assign group name for up to five specified administrator groups. The administrator group has platadm, useradm, and auditadm privileges and you cannot change that.	
group operator	Assign group name for up to five specified operator groups. The operator group has platop and auditop privileges and you cannot change that.	
group custom	Assign group name and privileges for up to five groups.	
userdomain	Configure the user domain. See EXAMPLE 6, below, for important information.	
defaultrole	Configure default privileges. If defaultrole is configured, users have privileges as specified by defaultrole after authentication; user group membership is not checked. If defaultrole is not configured, users' privileges will be learned from the LDAP/SSL server based on group membership.	
timeout	Configure transaction timeout, in seconds. <i>seconds</i> can be 1 to 20. The default is 4. If the specified timeout is too brief for the configuration, the login process or retrieval of user privilege settings could fail.	

server	Configure the primary and up to five alternate LDAP/SSL servers. To use a host name, DNS must be enabled. An IP address can be specified with port number; otherwise, the default port is used.										
logdetail	Enable logging of LDAP/SSL authentication and authorization diagnostic messages at the specified detail level. This log is for use in troubleshooting and is cleared on SP reboot. Level can be one of the following: <table><tr><td>none</td><td>Do not log diagnostic messages. Use this setting during normal system operation</td></tr><tr><td>high</td><td>Log only high-severity diagnostic messages</td></tr><tr><td>medium</td><td>Log only high-severity and medium-severity diagnostic messages</td></tr><tr><td>low</td><td>Log high-severity, medium-severity, and informational diagnostic messages</td></tr><tr><td>trace</td><td>Log high-severity, medium-severity, informational, and trace-level diagnostic messages</td></tr></table>	none	Do not log diagnostic messages. Use this setting during normal system operation	high	Log only high-severity diagnostic messages	medium	Log only high-severity and medium-severity diagnostic messages	low	Log high-severity, medium-severity, and informational diagnostic messages	trace	Log high-severity, medium-severity, informational, and trace-level diagnostic messages
none	Do not log diagnostic messages. Use this setting during normal system operation										
high	Log only high-severity diagnostic messages										
medium	Log only high-severity and medium-severity diagnostic messages										
low	Log high-severity, medium-severity, and informational diagnostic messages										
trace	Log high-severity, medium-severity, informational, and trace-level diagnostic messages										
log <i>options</i> clear	Clear the log file of LDAP/SSL authentication and authorization diagnostic messages.										
strictcertmode	Enable or disable strictcertmode mode. This mode is disabled by default; the channel is secure, but limited validation of the certificate is performed. If strictcertmode is enabled, the server's certificate must have already been uploaded to the server so that the certificate signatures can be validated when the server certificate is presented. Data is always protected, even if strictcertmode is disabled. Strictcertmode applies to primary and alternate servers alike.										

usermapmode	Enable or disable use of the usermap. When enabled, user attributes specified with the usermap operand, rather than userdomain, are used for user authentication.
usermap	Only if usermapmode is enabled, configure the specified usermap parameter:
attributeInfo	Use the specified attribute information for user validation
binddn	Use the specified Distinguished Name for binding with the LDAP/SSL server
bindpw	Use the specified password for binding with the LDAP/SSL server
searchbase	Configure the specified search base
	For more information, see EXAMPLES.
default	Reset LDAP/SSL settings to factory default.

EXAMPLES

EXAMPLE 1 Configures the LDAP/SSL primary server, specifying a port other than the default.

```
XSCF> setldapssl server 10.1.12.250:4040
```

EXAMPLE 2 Sets name for administrator group 3.

```
XSCF> setldapssl group administrator -i 3 name CN=spSuperAdmin, \
OU=Groups,DC=Sales,DC=aCompany,DC=com
```

EXAMPLE 3 Sets name for custom group 2.

```
XSCF> setldapssl group custom -i 2 name CN=spLimitedAdmin, \
OU=Groups,DC=Sales,DC=aCompany,DC=com
```

EXAMPLE 4 Sets roles for custom group 2.

```
XSCF> setldapssl group custom -i 2 role auditadm,platop
```

EXAMPLE 5 Loads certificate information for Alternate Server 4 from the console.

```
XSCF> setldapssl loadcert -i 4 console
Warning: About to load certificate for Alternate Server 4:
. Continue? [y|n]: y
Please enter the certificate:

-----BEGIN CERTIFICATE-----
MIIEtjCCAzagAwIBAgIBADANBgkqhkiG9w0BAQQFADB8MQswCQYDVQQGEwJVUzET
MBEGA1UECBMKQ2FsaWZvcn5pYTESMBAGA1UEBxMJU2FuIERpZWdvMRkwFwYDVQOK
ExBtDw4gTWljcm9zeXN0ZW1zMURUwEwYDVQQLEwxTeXN0ZW0gr3JvdXAxEjAQBgNV
...
-----END CERTIFICATE-----

CTRL-D
XSCF>
```

EXAMPLE 6 Configures user domain 2. <USERNAME> is a template that must be entered exactly as shown. During authentication the user's login name replaces <USERNAME>. userdomain can only take the form of Distinguished Name (DN).

```
XSCF> setldapssl userdomain -i 2 \
'UID=<USERNAME>,OU=people,DC=aCompany,DC=com'
```

EXAMPLE 7 Configures the optional user mapping attribute info setting.

```
XSCF> setldapssl usermap attributeInfo \
'(&(objectclass=person)(uid=<USERNAME>))'
```

EXAMPLE 8 Configures the optional user mapping bind distinguished name setting.

```
XSCF> setldapssl usermap binddn CN=SuperAdmin,DC=aCompany,DC=com
```

EXAMPLE 9 Configures the optional user mapping bind password setting.

```
XSCF> setldapssl usermap bindpw b.e9s#n
```

EXAMPLE 10 Configures the optional user mapping search base setting.

```
XSCF> setldapssl usermap searchbase OU=yoshi,DC=aCompany,DC=com
```

EXAMPLE 11 Loads a server certificate for LDAP/SSL using the specified URI.

```
XSCF> setldapssl loadcert http://domain_2/UID_2333/testcert
```

EXAMPLE 12 Loads a server certificate for LDAP/SSL using an http Proxy Server with port 8080 .

```
XSCF> setldapssl loadcert -p webproxy.aCompany.com:8080 \
http://domain_2/UID_2333/testcert
```

EXAMPLE 13 Loads a server certificate for LDAP/SSL using a username and password.

```
XSCF> setldapssl loadcert -u yoshi \
http://domain_2/UID_2333/testcert
```

EXAMPLE 14 Sets logging of high-severity diagnostic messages.

```
XSCF> setldapssl logdetail high
```

EXAMPLE 15 Clears diagnostic messages from the log file, answering Yes to all prompts.

```
XSCF> setldapssl log -y clear
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

showldapssl(8)

setldapssl(8)



NAME	setlocale - set the default locale of the XSCF
SYNOPSIS	setlocale -s <i>locale</i> setlocale -h
DESCRIPTION	The setlocale(8) command sets the default locale of the XSCF. The locale that can be set is English or Japanese.
Privileges	You must have platadm privileges to run this command. Refer to setprivileges(8) for more information.
OPTIONS	The following options are supported: -h Displays usage statement. When used with other options or operands, an error occurs. -s <i>locale</i> Specifies the default locale of the XSCF. Either of the following can be specified for <i>locale</i> : C Sets the locale for English. ja_JP.UTF-8 Sets the locale for Japanese.
EXTENDED DESCRIPTION	<ul style="list-style-type: none">■ The specified locale becomes effective after the subsequent login.■ The currently set locale can be checked by using the showlocale(8) command.
EXAMPLES	EXAMPLE 1 Sets the XSCF default locale for English. XSCF> setlocale -s C C EXAMPLE 2 Sets the XSCF default locale for Japanese. XSCF> setlocale -s ja_JP.UTF-8 ja_JP.UTF-8
EXIT STATUS	The following exit values are returned: 0 Successful completion. >0 An error occurred.
SEE ALSO	showlocale (8)

setlocale(8)



NAME	setlocator - control the blinking of the CHECK LED on the operator panel											
SYNOPSIS	setlocator <i>value</i> setlocator -h											
DESCRIPTION	<p>setlocator(8) command controls the blink state of the CHECK LED on the operator panel.</p> <p>The following states can be set:</p> <table><tr><td>Start blinking</td><td>Makes the CHECK LED blink.</td></tr><tr><td>Stop blinking</td><td>Stops the blinking of the CHECK LED.</td></tr></table>			Start blinking	Makes the CHECK LED blink.	Stop blinking	Stops the blinking of the CHECK LED.					
Start blinking	Makes the CHECK LED blink.											
Stop blinking	Stops the blinking of the CHECK LED.											
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>											
OPTIONS	<p>The following option is supported:</p> <table><tr><td>-h</td><td colspan="2">Displays usage statement. When used with other options or operands, an error occurs.</td></tr></table>			-h	Displays usage statement. When used with other options or operands, an error occurs.							
-h	Displays usage statement. When used with other options or operands, an error occurs.											
OPERANDS	<p>The following operand is supported:</p> <table><tr><td><i>value</i></td><td colspan="2">Specifies the CHECK LED state. One of the following can be specified:</td></tr><tr><td>blink</td><td colspan="2">Starts the CHECK LED blinking.</td></tr><tr><td>reset</td><td colspan="2">Stops the CHECK LED blinking.</td></tr></table>			<i>value</i>	Specifies the CHECK LED state. One of the following can be specified:		blink	Starts the CHECK LED blinking.		reset	Stops the CHECK LED blinking.	
<i>value</i>	Specifies the CHECK LED state. One of the following can be specified:											
blink	Starts the CHECK LED blinking.											
reset	Stops the CHECK LED blinking.											
EXTENDED DESCRIPTION	<p>The showlocator(8) command can be used to check the CHECK LED state.</p>											
EXAMPLES	<p>EXAMPLE 1 Starts the CHECK LED blinking.</p> <pre>XSCF> setlocator blink</pre> <p>EXAMPLE 2 Stops the CHECK LED blinking.</p> <pre>XSCF> setlocator reset</pre>											

setlocator(8)

EXIT STATUS	The following exit values are returned:	
	0	Successful completion.
	>0	An error occurred.
SEE ALSO	showlocator (8)	

NAME	setloginlockout - enable or disable login lockout feature
SYNOPSIS	setloginlockout -s <i>time</i> setloginlockout -h
DESCRIPTION	The setloginlockout(8) command sets the amount of time, in minutes, that users are prevented from logging into their accounts after the third unsuccessful login attempt.
Privileges	You must have useradm privileges to run this command. Refer to setprivileges(8) for more information.
OPTIONS	The following options are supported: -h Displays usage statement. When used with other options or operands, an error occurs. -s <i>time</i> Specifies the account lockout time, in minutes, using a number ranging from 0 to 1440 (24 hours). The default value, which disables the lockout, is 0 minutes.
EXTENDED DESCRIPTION	<p>When login lockout is set, a user is allowed three consecutive attempts to log in. An attempt to log in is defined as typing the user name at the login prompt and pressing the Return key, even if no password is entered or the login attempt times out. After the third consecutive failed attempt, the system prevents further tries for the set amount of time. During lockout, the system allows entry of the login name and asks for a password. But it rejects every further attempt, even if the password entered is valid. Failed attempts during lockout do not extend the lockout time.</p> <p>setloginlockout -s 0 disables the account lockout. When the account lockout is disabled, a user can attempt to log in and fail an unlimited number of times.</p> <p>If account lockout is disabled then re-enabled, locked-out users are able to try again between those two events. But locked-out users who do not retry until after the feature is re-enabled see no change, and remain locked out as if the disabling and reabling did not occur. The lockout time for such users is not changed.</p>
EXAMPLES	EXAMPLE 1 Sets the lockout timeout time to 90 minutes. XSCF> setloginlockout -s 90 90 minutes
EXIT STATUS	The following exit values are returned: 0 Successful completion. >0 An error occurred.

setloginlockout(8)

SEE ALSO

showloginlockout (8)

NAME	setlookup - enable or disable the use of the Lightweight Directory Access Protocol (LDAP) server for authentication and privilege lookup								
SYNOPSIS	<pre>setlookup -a {local ldap}</pre> <pre>setlookup -p {local ldap}</pre> <pre>setlookup -h</pre>								
DESCRIPTION	setlookup(8) sets whether authentication and privileges data are looked up in LDAP or not.								
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-a</td><td>Sets the authentication lookup. Used with one of the required operands ldap or local.</td></tr> <tr> <td>-h</td><td>Displays usage statement.</td></tr> <tr> <td></td><td>When used with other options or operands, an error occurs.</td></tr> <tr> <td>-p</td><td>Sets privileges lookup. Used with one of the required operands ldap or local.</td></tr> </table>	-a	Sets the authentication lookup. Used with one of the required operands ldap or local.	-h	Displays usage statement.		When used with other options or operands, an error occurs.	-p	Sets privileges lookup. Used with one of the required operands ldap or local.
-a	Sets the authentication lookup. Used with one of the required operands ldap or local.								
-h	Displays usage statement.								
	When used with other options or operands, an error occurs.								
-p	Sets privileges lookup. Used with one of the required operands ldap or local.								
OPERANDS	<p>The following operands are supported:</p> <table> <tr> <td>ldap</td><td>Used with the -a and -p options. When set to ldap, authentication or privileges are first looked up locally and then in LDAP if not found locally. Verify that LDAP servers have been correctly configured before executing setlookup -a ldap or setlookup -p ldap.</td></tr> <tr> <td>local</td><td>Used with the -a and -p options. When set to local, authentication or privileges are looked up only locally.</td></tr> </table>	ldap	Used with the -a and -p options. When set to ldap, authentication or privileges are first looked up locally and then in LDAP if not found locally. Verify that LDAP servers have been correctly configured before executing setlookup -a ldap or setlookup -p ldap .	local	Used with the -a and -p options. When set to local, authentication or privileges are looked up only locally.				
ldap	Used with the -a and -p options. When set to ldap, authentication or privileges are first looked up locally and then in LDAP if not found locally. Verify that LDAP servers have been correctly configured before executing setlookup -a ldap or setlookup -p ldap .								
local	Used with the -a and -p options. When set to local, authentication or privileges are looked up only locally.								
EXAMPLES	<p>EXAMPLE 1 Enabling LDAP Lookup of Privilege Data</p> <pre>XSCF> setlookup -p ldap</pre>								
EXIT STATUS	<p>The following exit values are returned:</p> <table> <tr> <td>0</td><td>Successful completion.</td></tr> <tr> <td>>0</td><td>An error occurred.</td></tr> </table>	0	Successful completion.	>0	An error occurred.				
0	Successful completion.								
>0	An error occurred.								

setlookup(8)

SEE ALSO | **setldap (8) , showlookup (8)**

NAME	setnameserver - set the domain name system (DNS) servers and the DNS search paths used in the XSCF network
SYNOPSIS	<pre> setnameserver [-c add] <i>address...</i> setnameserver -c del <i>address...</i> setnameserver -c del -a setnameserver -c addsearch <i>domainname...</i> setnameserver -c delsearch <i>domainname...</i> setnameserver -c delsearch -a setnameserver -h </pre>
DESCRIPTION	<p>The setnameserver(8) command specifies the DNS servers and DNS search paths used in the XSCF network.</p> <p>Up to three DNS servers can be registered for XSCF. Up to five DNS search paths can be registered.</p>
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <ul style="list-style-type: none"> -a Deletes all the DNS servers and the DNS search paths that are currently registered. When deleting all DNS servers, this option is used together with "-c del." When deleting all DNS search paths, this option is used together with "-c delsearch." -c add Adds the host with the specified IP address as a DNS server. This option is used together with <i>address</i>. If the -c option is omitted, "-c add" is assumed specified. When a DNS server is registered, the existing setting is deleted and the specified address is added. -c addsearch Registers the specified domain name to the DNS search path. This option is used together with <i>domainname</i>. If the -c option is omitted, "-c add" is assumed specified. When a DNS search path is registered, the existing setting is deleted and the specified domain name is added.

	<div><div>-c del</div><div>Deletes specified DNS servers. If the -c option is omitted, "-c add" is assumed specified. When deleting multiple DNS servers, the servers are deleted in the order they are specified. See EXAMPLE 3.</div></div> <div><div>-c delsearch</div><div>Deletes specified DNS search path. If the -c option is omitted, "-c add" is assumed specified. When deleting multiple DNS search paths, the search paths are deleted in the order they are specified.</div></div> <div><div>-h</div><div>Displays usage statement. When used with other options or operands, an error occurs.</div></div>
OPERANDS	<div>The following operand is supported:</div> <div><div><div>address</div><div>Specifies the IP address of a DNS server to be added or deleted using four sets of integers. Up to three addresses delimited by the space can be specified. The following <i>address</i> form is accepted: xxx.xxx.xxx.xxx xxxAn integer from 0–255. Zero suppression can be used to specify the integer. You cannot specify the loopback address (127.0.0.0/8), the network address, or a broadcast address.</div></div><div><div>domainname</div><div>Specifies the domain name of the DNS search path to be registered or deleted. You can use a RFC 1034-compliant format. The label element can contain letters (a to z, A to Z), numbers (0 to 9), and the special characters "-" (hyphens) and "." (period). The domain name must begin with a letter and end with either a letter or number. A "." (period) can be used as delimiter. You can specify up to five domain names, each separated by a space, but the total number of characters cannot exceed 256.</div></div></div>
EXTENDED DESCRIPTION	<div><div>■ If multiple DNS servers are specified, the servers are used in the order specified.</div><div>■ The registered DNS search path is used, as in the case where you use the nslookup(8) command and refer to the DNS server for the host name. The host name that you specified in the nslookup(8) command will be appended with the domain name which registered in the DNS search path, and be referred to the DNS server in the FQDN format.</div><div>■ If multiple search paths are registered, domain names are assigned in order of registration and referred to the DNS server.</div><div>■ If you set the DNS search path, you must also specify the DNS server.</div></div>

- The DNS domain name (set by the `sethostname(8)` command) and search path (set by the `setnameserver(8)` command) together can contain up to 256 characters.
- To change the DNS servers and the DNS search paths in XSCF, execute the `applynetwork(8)` command. Then, use the `rebootxscf(8)` command to reset XSCF, completing the change.
- The currently set DNS server can be checked by using the `shownameserver(8)` command.

EXAMPLES

EXAMPLE 1 Adds the hosts with the IP addresses 192.168.1.2, 10.18.108.10, and 10.24.1.2 as DNS server. Names are solved in the order specified.

```
XSCF> setnameserver 192.168.1.2 10.18.108.10 10.24.1.2
```

EXAMPLE 2 Deletes the host with the IP address 10.18.108.10 from the DNS server.

```
XSCF> setnameserver -c del 10.18.108.10
```

EXAMPLE 3 Deletes the first two DNS servers whose IP addresses are 10.24.1.2. This case is when a DNS server is listed multiple times.

```
XSCF> shownameserver
nameserver 10.24.1.2
nameserver 10.24.1.2
nameserver 10.24.1.2
XSCF> setnameserver -c del 10.24.1.2 10.24.1.2
XSCF> shownameserver
nameserver 10.24.1.2
```

EXAMPLE 4 Deletes all the DNS servers.

```
XSCF> setnameserver -c del -a
```

EXAMPLE 5 Registers the domain names search1.com, search2.com, search3.com, search4.com, and search5.com to the search path.

```
XSCF> setnameserver -c addsearch search1.com search2.com search3.com \
search4.com search5.com
```

EXAMPLE 6 Deletes the domain name search5.com from the DNS search path.

```
XSCF> setnameserver -c delsearch search5.com
```

EXAMPLE 7 Deletes all the registered domain names from the DNS search path.

```
XSCF> setnameserver -c delsearch -a
```

setnameserver(8)

EXIT STATUS	The following exit values are returned:
0	Successful completion.
>0	An error occurred.
SEE ALSO	applynetwork (8), sethostname (8), shownameserver (8)

NAME	setnetwork - set or remove an XSCF network interface
SYNOPSIS	<p>setnetwork [-m <i>addr</i>] <i>interface address</i></p> <p>setnetwork -c {up down} <i>interface</i></p> <p>setnetwork [[-q] -{y n}] -r <i>interface</i></p> <p>setnetwork -h</p>
DESCRIPTION	<p>setnetwork(8) command sets or removes an XSCF network interface.</p> <p>The following settings can be made for the specified network interface:</p> <ul style="list-style-type: none"> ■ Whether to enable or disable the network interface. ■ IP address ■ Netmask <p>When you set an IP address or netmask, the specified network interface will be enabled at the same time as the setting.</p> <p>When you removed the netmask interface, the specified network interface will be disabled at the same time as the removal. And when the routing information is set to the target network interface, it will be removed together.</p>
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>

OPTIONS

The following options are supported:

- c {up|down}** Specifies whether to enable the specified network interface. One of the following values can be specified. If none of them is specified, an error occurs.
- up Enables the network interface.
- down Disables the network interface.
- h** Displays usage statement. When used with other options or operands, an error occurs.
- m *addr*** Specifies a netmask. To specify *addr*, use the standard form of four integer values delimited by "." (periods). For example, use *xxx.xxx.xxx.xxx*, where *xxx* is an integer from 0-255. Zero suppression can be used to specify the integer.
- If the **-m** option omitted, one of the following netmask values is set depending on the address specified in the *address* operand:
- If the address specified is class A (e.g. 20.1.1.1), the netmask value 255.0.0.0 is set.
 - If the address specified is class B (e.g. 136.18.1.1), the netmask value 255.255.0.0 is set.
 - If the address specified is class C (e.g. 200.18.108.1), the netmask value 255.255.255.0 is set.
- n** Automatically answers "n" (no) to all prompts.
- q** Suppresses all messages to stdout, including prompts.
- r** Removes the IP address and netmask of the network interface.
- y** Automatically answers "y" (yes) to all prompts.

OPERANDS

The following operands are supported:

address Specifies an IP address. To specify *address*, use the standard form of four integer values delimited by "." (periods). For example, use *xxx.xxx.xxx.xxx*, where *xxx* is an integer from 0-255. Zero suppression can be used to specify the integer.

You cannot specify the loopback address (127.0.0.0/8), the network address, a broadcast address, or class D or E (224.0.0.0 - 255.255.255.255) address.

interface Specifies the network interface to be configured. One of the following values can be specified:

- In M3000/M4000/M5000 servers:

For XSCF unit 0:

xscf#0-lan#0 XSCF-LAN#0

xscf#0-lan#1 XSCF-LAN#1

For abbreviation:

lan#0 an abbreviation of XSCF-LAN#0

lan#1 an abbreviation of XSCF-LAN#1

- In M8000/M9000 servers:

Specifying the *-c* or *-r* option and Inter SCF Network (ISN) together, it results in errors.

For XSCF unit 0:

xscf#0-lan#0 XSCF-LAN#0

xscf#0-lan#1 XSCF-LAN#1

xscf#0-if ISN

For XSCF unit 1 :

xscf#1-lan#0 XSCF-LAN#0

xscf#1-lan#1 XSCF-LAN#1

xscf#1-if ISN

For takeover IP address:

lan#0 takeover IP address for XSCF-LAN#0

lan#1 takeover IP address for XSCF-LAN#1

**EXTENDED
DESCRIPTION**

- In M8000/M9000 servers, a takeover IP address can be used without a need to determine whether XSCF has been switched. By setting the LAN ports of the active XSCF unit as `lan#0` and `lan#1`, they can be accessed with the names `lan#0` and `lan#1`.
- In M3000/M4000/M5000 servers, the value of the `lan#0` is fixed with `xscf#0-lan#0`, and the `lan#1` is fixed with `xscf#0-lan#1`.
- After you set the network interface, if you disable that network interface and execute the `applynetwork(8)` command, the setting data of IP address and netmask will be stored in XSCF. When you enable the network interface, the setting of IP address and netmask will be used.
- In the following cases, the `setnetwork(8)` command results in an error:
 - When specified the same IP address as an existing IP address
 - When specified a subnet which is the same with DSCP
 - When specified the same subnets in ISN and in other network interface
 - When specified the `-c` or `-r` option and ISN together
 - When the netmask that specified by using the `-m addr` option does not correspond to either of the cases below:
 - Only the most significant bit is 1
 - Repeated 1 from the most significant bit
- If M3000/M4000/M5000 servers corresponds to the cases below, the `applynetwork(8)` command results in an error.
 - If `xscf#0-lan#0` and `xscf#0-lan#1` are in the down status
 - If `xscf#0-lan#0` and `xscf#0-lan#1` are in the up status and the same subnets have been set
- On M8000/M9000 servers, if `xscf#0-lan#0`, `xscf#1-lan#0`, `xscf#0-lan#1`, and `xscf#1-lan#1` are all in the down status, the `applynetwork(8)` command results in an error.
- On M8000/M9000 servers, if the network interface which is in the up status has the following settings, the `applynetwork(8)` command results in an error.
 - If the subnet of `xscf#0-lan#0`, `xscf#1-lan#0`, and the takeover IP address `lan#0` are different
 - If the subnet of `xscf#0-lan#1`, `xscf#1-lan#1`, and the takeover IP address `lan#1` are different
 - If the subnet of ISN is different
 - If the subnet of `xscf#0-lan#0` and `xscf#0-lan#1` are the same
 - If the subnet of `xscf#1-lan#0` and `xscf#1-lan#1` are the same
- In case you specified the IP address and the netmask to the interfaces other than ISN and when the ISN is not configured, the following default value will be set:

- `xscf#0-if`:
IP address: 192.168.1.1 Netmask: 255.255.255.0
- `xscf#1-if`:
IP address: 192.168.1.2 Netmask: 255.255.255.0
- The `shownetwork(8)` command can display current information on a network interface configured for XSCF.
- To reflect information on the specified network interface, execute the `applynetwork(8)` command and reset XSCF.

EXAMPLES

EXAMPLE 1 Sets the IP address 192.168.10.10 and netmask 255.255.255.0 for XSCF-LAN#0 on XSCF unit 0.

```
XSCF> setnetwork xscf#0-lan#0 -m 255.255.255.0 192.168.10.10
```

EXAMPLE 2 Sets the IP address 192.168.10.10 and netmask 255.255.255.0 for XSCF-LAN#0 on XSCF unit 0 in an M3000/M4000/M5000 server.

```
XSCF> setnetwork lan#0 -m 255.255.255.0 192.168.10.10
```

EXAMPLE 3 Disables XSCF-LAN#1 on XSCF unit 0.

```
XSCF> setnetwork xscf#0-lan#1 -c down
```

EXAMPLE 4 Sets the IP address 192.168.10.128 on ISN on the XSCF unit 0. By default, 255.255.255.0 is set for the netmask.

```
XSCF> setnetwork xscf#0-if 192.168.10.128
```

EXAMPLE 5 Sets the IP address 192.168.11.10 and netmask 255.255.255.0 for XSCF-LAN#0 on XSCF unit 1.

```
XSCF> setnetwork xscf#1-lan#0 -m 255.255.255.0 192.168.11.10
```

EXAMPLE 6 Sets the IP address 192.168.1.10 and netmask 255.255.255.0 for the takeover IP address of XSCF-LAN#0.

```
XSCF> setnetwork lan#0 -m 255.255.255.0 192.168.1.10
```

EXAMPLE 7 Removes the IP address and netmask that set in XSCF-LAN#0 on XSCF unit 0

```
XSCF> setnetwork -r xscf#0-lan#0
```

You specified '-r' interface remove option.

So, we delete routing information that interface corresponds.

setnetwork(8)

Continue? [y|n] :**y**

If you choose 'y'es, you must execute 'applynetwork' command for application.

Or you choose 'y'es, but you don't want to apply, you execute 'rebootxscf' for reboot.

EXIT STATUS

The following exit values are returned:

0 Successful completion.

>0 An error occurred.

SEE ALSO

applynetwork(8), rebootxscf(8), shownetwork(8)

NAME	setntp - set the NTP servers used on the XSCF network, the stratum value, the preferred server and the clock address of the local clock of XSCF								
SYNOPSIS	<pre> setntp [-c add]address... setntp -c del address... setntp -c del -a setntp -c stratum -i stratum_no setntp -m type=value setntp -h </pre>								
DESCRIPTION	<p>setntp(8) command sets the NTP information for XSCF.</p> <p>The setntp(8) command can specify the following information:</p> <ul style="list-style-type: none"> ■ The NTP servers which are used on the XSCF network. Up to three NTP servers can be registered for the XSCF network. Any attempt to register four or more servers causes an error. ■ The stratum value which has been set to XSCF. ■ Whether to specify the preferred server. ■ The clock address of the local clock of XSCF. 								
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-a</td><td>Deletes all the NTP servers that are currently registered. This option is used with the "-c del".</td></tr> <tr> <td>-c add</td><td>Adds the host with the specified address or the host as an NTP server. This option is used together with <i>address</i>. If the -c option is omitted, "-c add" is used. When an NTP server is registered, the existing setting is deleted and overwriting is performed with the specified <i>address</i>.</td></tr> <tr> <td>-c del</td><td>Deletes the host with the specified address or the host from the NTP servers. If the -c option is omitted, "-c add" is assumed specified. If multiple NTP servers correspond to the case, those are deleted for the number you specified in the ascending order.</td></tr> <tr> <td>-c stratum</td><td>Sets the stratum value in case you regard XSCF as an NTP server.</td></tr> </table>	-a	Deletes all the NTP servers that are currently registered. This option is used with the "-c del".	-c add	Adds the host with the specified address or the host as an NTP server. This option is used together with <i>address</i> . If the -c option is omitted, "-c add" is used. When an NTP server is registered, the existing setting is deleted and overwriting is performed with the specified <i>address</i> .	-c del	Deletes the host with the specified address or the host from the NTP servers. If the -c option is omitted, "-c add" is assumed specified. If multiple NTP servers correspond to the case, those are deleted for the number you specified in the ascending order.	-c stratum	Sets the stratum value in case you regard XSCF as an NTP server.
-a	Deletes all the NTP servers that are currently registered. This option is used with the "-c del".								
-c add	Adds the host with the specified address or the host as an NTP server. This option is used together with <i>address</i> . If the -c option is omitted, "-c add" is used. When an NTP server is registered, the existing setting is deleted and overwriting is performed with the specified <i>address</i> .								
-c del	Deletes the host with the specified address or the host from the NTP servers. If the -c option is omitted, "-c add" is assumed specified. If multiple NTP servers correspond to the case, those are deleted for the number you specified in the ascending order.								
-c stratum	Sets the stratum value in case you regard XSCF as an NTP server.								

<code>-h</code>	Displays usage statement. When used with other options or operands, an error occurs.								
<code>-i stratum_no</code>	Specifies the stratum value. This option is used together with the " <code>-c stratum</code> ". An integer from 1 to 15 can be specified. If the stratum value not specified, it is 5.								
<code>-m type=value</code>	Sets the preferred server or the local clock of XSCF. You can specify either of the following for <i>type</i> : <table> <tr> <td><code>prefer</code></td><td>Specifies whether priority should be given to the NTP server at the top of the registered list at the time of synchronization.</td></tr> <tr> <td><code>localaddr</code></td><td>Sets the local clock of XSCF.</td></tr> </table> <p>When <code>prefer</code> is specified for <i>type</i>, either of the following can be specified for <i>value</i>:</p> <table> <tr> <td><code>on</code></td><td>That server is the first choice and alternatives servers are given preference in order of increasing stratum value, from lowest to the highest. The default value is <code>on</code>.</td></tr> <tr> <td><code>off</code></td><td>The same preferences are given with no priority for the server at the top of the list.</td></tr> </table> <p>When <code>localaddr</code> is specified for <i>type</i>, specify the least significant byte of the clock address of the local clock 127.127.1.<i>x</i> for <i>value</i>. A numeric from 0 to 3 can be specified. The default is 0, and the clock address of the local clock at this time is 127.127.1.0.</p>	<code>prefer</code>	Specifies whether priority should be given to the NTP server at the top of the registered list at the time of synchronization.	<code>localaddr</code>	Sets the local clock of XSCF.	<code>on</code>	That server is the first choice and alternatives servers are given preference in order of increasing stratum value, from lowest to the highest. The default value is <code>on</code> .	<code>off</code>	The same preferences are given with no priority for the server at the top of the list.
<code>prefer</code>	Specifies whether priority should be given to the NTP server at the top of the registered list at the time of synchronization.								
<code>localaddr</code>	Sets the local clock of XSCF.								
<code>on</code>	That server is the first choice and alternatives servers are given preference in order of increasing stratum value, from lowest to the highest. The default value is <code>on</code> .								
<code>off</code>	The same preferences are given with no priority for the server at the top of the list.								

OPERANDS The following operands are supported:

address Specifies the IP address or host name of an NTP server to be added or deleted. Up to three IP addresses or host names can be specified by delimited the spaces. Host name, if specified, must be resolvable.

A specified IP address is a set of four integer values delimited by the "." (period). The following address form is accepted:

xxx.xxx.xxx.xxx

xxx An integer from 0–255. Zero suppression can be used to specify the integer.

You cannot specify the loopback address (127.0.0.0/8), the network address, or a broadcast address.

If "-c add" is specified and *address* is omitted, an error occurs.

EXTENDED DESCRIPTION

- In M8000/M9000 servers the setting is automatically passed to the standby XSCF. If the standby XSCF is unable to accept that setting, an error occurs.
- To apply the specified configuration, execute the `rebootxscf(8)` command and reset XSCF.
- After the XSCF is reset, its time is synchronized with the time of the selected NTP server.
- If you set the NTP server to XSCF, the domain time may be changed due to the time difference retained in XSCF. Execute the `resetdateoffset(8)` command to reset the time difference.
- The current NTP server settings set by the `setntp(8)` command can be checked by using the `showntp(8)` command.

EXAMPLES

EXAMPLE 1 Adds the three NTP servers with the addresses 192.168.1.2, 10.18.108.10, and 10.24.1.2.

```
XSCF> setntp 192.168.1.2 10.18.108.10 10.24.1.2
```

Please reset the XSCF by `rebootxscf` to apply the ntp settings.

EXAMPLE 2 Deletes the NTP server 10.18.108.10.

```
XSCF> setntp -c del 10.18.108.10
```

Please reset the XSCF by `rebootxscf` to apply the ntp settings.

EXAMPLE 3 Adds the two NTP servers `ntp1.example.com` and `ntp2.example.com`.

```
XSCF> setntp ntp1.example.com ntp2.example.com
```

Please reset the XSCF by `rebootxscf` to apply the ntp settings.

EXAMPLE 4 Sets the stratum value to 7.

```
XSCF> setntp -c stratum -i 7
```

Please reset the XSCF by rebootxscf to apply the ntp settings.

EXAMPLE 5 Cancels the designation of preferred server of the NTP server.

```
XSCF> setntp -m prefer=off
```

Please reset the XSCF by rebootxscf to apply the ntp settings.

EXAMPLE 6 Sets the clock address of the local clock of XSCF.

```
XSCF> setntp -m localaddr=3
```

Please reset the XSCF by rebootxscf to apply the ntp settings.

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

rebootxscf(8), **setnameserver(8)**, **showntp(8)**

NAME	setpacketfilters - set the IP packet filtering rules to be used in the XSCF network
SYNOPSIS	<pre>setpacketfilters [[-q] -{y n}] -c {add del} [-i <i>interface</i>] [-s <i>address</i> [/ <i>mask</i>]] -j <i>target</i></pre> <pre>setpacketfilters [[-q] -{y n}] -c clear</pre> <pre>setpacketfilters -h</pre>
DESCRIPTION	<p>The setpacketfilters(8) command sets the IP packet filtering rules to be used in the XSCF network.</p> <p>IP packet filtering rules can be used to prevent illegal access to the XSCF network. Settings specified with setpacketfilters(8) are applied immediately after the command is executed.</p>
Privileges	<p>You must have platadm or fieldeng privilege to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>

OPTIONS

The following options are supported:

- c** Specifies the operation to define the IP packet filtering rule.
 {add|del|clear} Any of the following can be specified. This option cannot be omitted.
- add Adds an IP packet filtering rule.
- del Deletes specified IP packet filtering rule.
- clear Clears all IP packet filtering rules which have been set.
- h** Displays usage statement. When used with other options or operands, an error occurs.
- i interface** Specifies the XSCF network interface to which you set the IP packet filtering rules. Any of the following can be set.
- In M3000/M4000/M5000 servers:
- For XSCF unit 0:
- | | |
|--------------|------------|
| xscf#0-lan#0 | XSCF-LAN#0 |
| xscf#0-lan#1 | XSCF-LAN#1 |
- For abbreviation:
- | | |
|-------|------------|
| lan#0 | XSCF-LAN#0 |
| lan#1 | XSCF-LAN#1 |
- In M8000/M9000 servers:
- For XSCF unit 0:
- | | |
|--------------|------------|
| xscf#0-lan#0 | XSCF-LAN#0 |
| xscf#0-lan#1 | XSCF-LAN#1 |
- For XSCF unit 1:
- | | |
|--------------|------------|
| xscf#1-lan#0 | XSCF-LAN#0 |
| xscf#1-lan#1 | XSCF-LAN#1 |
- j target** Specifies action to be taken when the received IP packet matches the filtering rule, where *target* is one of the following:
- ACCEPT Permits the IP packet to go through
- DROP Drops the IP packet
- n** Automatically answers "n" (no) to all prompts.

EXTENDED DESCRIPTION

- q Suppresses all messages to stdout, including prompts.
 - s *address[/mask]* Specifies the sender of the IP packet. Either an IP address or a network IP address with a netmask (/mask) added can be specified.

To specify an IP address or a network IP address, use the standard form of four integer values delimited by "." (periods). For example, use *xxx.xxx.xxx.xxx*, where *xxx* is an integer from 0-255. Zero suppression can be used to specify the integer.

If the -s option is omitted, the filtering rule is applied to all IP packets received via the specified network interface.
 - y Automatically answers "y" (no) to all prompts.
- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
 - The IP packet filtering rules are applied in the order in which they are defined.
 - Rules for permitted senders must be defined before filter restrictions. First, configure permitted senders; then, configure the setting for dropped packets. If specified in reverse order, all IP packets will be dropped.
 - Improper filtering rules can prevent normal network functions for the interface.
 - If both the -i *interface* and the -s *address [/mask]* options are omitted, the rule is applied to all IP packets received through XSCF-LAN.
 - If the netmask value specified by the -s *address [/mask]* option does not correspond to any of the following, an error results.
 - Only the most significant bit is 1
 - Repeated 1 from the most significant bit
 - A rule which overlaps with an already-defined IP packet filtering rule cannot be set.
 - Up to 16 IP packet filtering rules can be set.
 - On M8000/M9000 servers, in case the settings cannot be applied to the standby XSCF and an error results, confirm that the standby XSCF has no errors. After the confirmation, use the rebootxscf(8) command to reset XSCF in order to apply the settings.
 - Use the showpacketfilters(8) command to display the current IP packet filtering rules.

EXAMPLES

EXAMPLE 1 Drops the IP packet sent from the IP address 10.10.10.10.

```
XSCF> setpacketfilters -c add -s 10.10.10.10 -j DROP
-s 10.10.10.10/255.255.255.255 -j DROP
NOTE: applied IP packet filtering rules.
Continue? [y|n] :y
XSCF>
```

EXAMPLE 2 On M3000/M4000/M5000 servers, communication to xscf#0-lan#0 exclusively accepts those IP packets sent from the 192.168.100.0/255.255.255.0 network.

```
XSCF> setpacketfilters -c add -s 192.168.100.0/255.255.255.0 -i \
xscf#0-lan#0 -j ACCEPT
-s 192.168.100.0/255.255.255.0 -i xscf#0-lan#0 -j ACCEPT
NOTE: applied IP packet filtering rules.
Continue? [y|n] :y
XSCF> setpacketfilters -c add -i xscf#0-lan#0 -j DROP
-s 192.168.100.0/255.255.255.0 -i xscf#0-lan#0 -j ACCEPT
-i xscf#0-lan#0 -j DROP
NOTE: applied IP packet filtering rules.
Continue? [y|n] :y
XSCF>
```

EXAMPLE 3 Deletes the IP packet drop setting which has been set in the IP address 10.10.10.10..

```
XSCF> showpacketfilters -a
-s 172.16.0.0/255.255.0.0 -i xscf#0-lan#0 -j DROP
-s 10.10.10.10/255.255.255.255 -j DROP
XSCF>
XSCF> setpacketfilters -c del -s 10.10.10.10 -j DROP
-s 172.16.0.0/255.255.0.0 -i xscf#0-lan#0 -j DROP
NOTE: applied IP packet filtering rules.
Continue? [y|n] :y
XSCF>
```

EXAMPLE 4 Clears all IP packet filtering rules which have been set.

```
XSCF> setpacketfilters -c clear
(none)
NOTE: applied IP packet filtering rules.
Continue? [y|n] :y
XSCF>
```


EXIT STATUS The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO **showpacketfilters** (8)

setpacketfilters(8)



NAME	setpasswordpolicy - manage the system password policy
SYNOPSIS	<p>setpasswordpolicy [-d <i>dcredit</i>] [-e <i>expiry</i>] [-i <i>inactive</i>] [-k <i>diflk</i>] [-l <i>lcredit</i>] [-M <i>maxdays</i>] [-m <i>minlen</i>] [-n <i>mindays</i>] [-o <i>ocredit</i>] [-r <i>remember</i>] [-u <i>ucredit</i>] [-w <i>warn</i>] [-y <i>retry</i>]</p> <p>setpasswordpolicy -h</p>
DESCRIPTION	<p>setpasswordpolicy(8) allows an administrator to change the system password policy. These policies are enforced by XSCF on the Service Processor. The new password policy applies only to users added after the setpasswordpolicy(8) command is executed.</p> <p>When a user is created, the adduser(8) command uses the <i>expiry</i>, <i>inactive</i>, <i>maxdays</i>, <i>mindays</i>, and <i>warn</i> paramaters as the password settings for the new account. The password(8) command can be used to change the password expiration settings for an existing account.</p>
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <ul style="list-style-type: none"> -d <i>dcredit</i> Sets the maximum credit for digits in a password. The minimum acceptable password length is decreased by one for each digit in the password, up to <i>dcredit</i> value. Valid values are integers with value of 0 - 999999999. The initial setting is 1. See EXAMPLE 2. -e <i>expiry</i> Sets the number of days a new account will be valid before expiring and becoming disabled. This value is assigned to new user accounts when they are created. The initial value is 0. A zero means that the account will not expire. Valid values are integers with value of 0 - 999999999. -h Displays usage statement. When used with other options or operands, an error occurs. -i <i>inactive</i> Sets the number of days after a password expires until the account is locked. This value is assigned to new user accounts when they are created. The initial value is -1. A value of -1 means that the account will not be locked after the password expires. Valid values are integers with value of -1 - 999999999. -k <i>difok</i> Sets the minimum number of new characters (characters which were not present in the old password) that a new password must contain. The initial setting is 3. Valid values are integers with value of 0 - 999999999.

<i>-l lcredit</i>	Sets the maximum credit for lowercase letters in a password. The minimum acceptable password length is decreased by one for each lowercase letter in the password, up to <i>lcredit</i> value. Valid values are integers with value of 0 - 999999999. The initial setting is 1. See EXAMPLE 2.
<i>-M maxdays</i>	Sets the maximum number of days that a password is valid. This value is assigned to new user accounts when they are created. The initial value is 999999. Valid values are integers with value of 0 - 999999999.
<i>-m minlen</i>	Sets the minimum acceptable password length if no password credits are applied. If credits are specified by options <i>-d</i> , <i>-u</i> , <i>-l</i> , and <i>-o</i> , the required password length is reduced when the specified character types are used. Note - Passwords cannot contain fewer than 6 characters regardless of credits. Valid values are integers with value of 6 - 999999999. See EXAMPLE 2.
<i>-n mindays</i>	Sets the minimum number of days between password changes. An initial value of zero for this field indicates that you can change the password at any time. This value is assigned to new user accounts when they are created. Valid values are integers with value of 0 - 999999999.
<i>-o ocredit</i>	Sets the maximum credit for nonalphanumeric characters in a password. The minimum acceptable password length is decreased by one for each nonalphanumeric character in the password, up to <i>ocredit</i> value. Valid values are integers with value of 0 - 999999999. The initial setting is 1. See EXAMPLE 2.
<i>-r remember</i>	Sets the number of passwords remembered in the password history. The maximum valid value is 10. The initial setting is 3.

<code>-l lcredit</code>	Sets the maximum credit for lowercase letters in a password. The minimum acceptable password length is decreased by one for each lowercase letter in the password, up to <i>lcredit</i> value. Valid values are integers with value of 0 - 999999999. The initial setting is 1. See EXAMPLE 2.
<code>-M maxdays</code>	Sets the maximum number of days that a password is valid. This value is assigned to new user accounts when they are created. The initial value is 999999. Valid values are integers with value of 0 - 999999999.
<code>-m minlen</code>	Sets the minimum acceptable password length if no password credits are applied. If credits are specified by options <code>-d</code> , <code>-u</code> , <code>-l</code> , and <code>-o</code> , the required password length is reduced when the specified character types are used. Note - Passwords cannot contain fewer than 6 characters regardless of credits. Valid values are integers with value of 6 - 999999999. See EXAMPLE 2.
<code>-n mindays</code>	Sets the minimum number of days between password changes. An initial value of zero for this field indicates that you can change the password at any time. This value is assigned to new user accounts when they are created. Valid values are integers with value of 0 - 999999999.
<code>-o ocredit</code>	Sets the maximum credit for nonalphanumeric characters in a password. The minimum acceptable password length is decreased by one for each nonalphanumeric character in the password, up to <i>ocredit</i> value. Valid values are integers with value of 0 - 999999999. The initial setting is 1. See EXAMPLE 2.
<code>-r remember</code>	Sets the number of passwords remembered in the password history. The maximum valid value is 10. The initial setting is 3.

- u *ucredit* Sets the maximum credit for uppercase letters in a password. The minimum acceptable password length is decreased by one for each uppercase letter in the password, up to *ucredit* value. Valid values are integers with value of 0 - 999999999. The initial setting is 1. See EXAMPLE 2.
- w *warn* Sets the default number of days before password expiration at which to start warning the user. This value is assigned to new user accounts when they are created. The initial value is 7.

Valid values are integers with value of 0 - 999999999.
- y *retry* Sets the number of retries permitted when using the password command to change the password for a user account. The initial value is 3.

Valid values are integers with value of 0 - 999999999.

EXAMPLES

EXAMPLE 1 Setting the Minimum Size and Number of Passwords Remembered

```
XSCF> setpasswordpolicy -m 12 -r 5
```

EXAMPLE 2 Setting Minimum Password Length and Maximum Credits

```
XSCF> setpasswordpolicy -m 10 -d 1 -u 0 -l 0 -o 1
```

After running this command, the minimum password length for new passwords is 10 characters. A password of 9 characters is accepted if it contains at least one digit or nonalphanumeric character. A password of 8 characters is accepted if it contains a digit and a nonalphanumeric character.

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

adduser(8), password(8), showpasswordpolicy(8)

NAME	setpowerupdelay - set the warm-up time of the system and wait time before system startup								
SYNOPSIS	setpowerupdelay -c warmup -s <i>time</i> setpowerupdelay -c wait -s <i>time</i> setpowerupdelay -h								
DESCRIPTION	<p>The setpowerupdelay(8) command sets the warm-up time of the system and wait time before system startup.</p> <p>The wait time before system startup can be used to control the system startup time so that the system is started only after air-conditioning makes the temperature of the computer room suitable. If the system power has already been turned on and the system is operating, the setting takes effect at the next startup.</p>								
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-c warmup</td><td>Specifies the warm-up time.</td></tr> <tr> <td>-c wait</td><td>Specifies the wait time before system startup.</td></tr> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> <tr> <td>-s <i>time</i></td><td>Specifies the warm-up time or wait time before system startup in minutes. An integer ranging from 0 to 255 can be specified for time.</td></tr> </table>	-c warmup	Specifies the warm-up time.	-c wait	Specifies the wait time before system startup.	-h	Displays usage statement. When used with other options or operands, an error occurs.	-s <i>time</i>	Specifies the warm-up time or wait time before system startup in minutes. An integer ranging from 0 to 255 can be specified for time.
-c warmup	Specifies the warm-up time.								
-c wait	Specifies the wait time before system startup.								
-h	Displays usage statement. When used with other options or operands, an error occurs.								
-s <i>time</i>	Specifies the warm-up time or wait time before system startup in minutes. An integer ranging from 0 to 255 can be specified for time.								
EXTENDED DESCRIPTION	<ul style="list-style-type: none"> ■ You can use the showpowerupdelay(8) command to check the warm-up time and the wait time before system startup, previously set by the setpowerupdelay(8) command, regardless of whether the system is in operation. ■ When the power is turned on from the operator panel, the wait time and warm-up time that you set are ignored. If you have set these times and wish to observe them at startup, perform the poweron(8) command. 								
EXAMPLES	<p>EXAMPLE 1 Sets the warm-up time to 10 minutes.</p> <pre>XSCF> setpowerupdelay -c warmup -s 10</pre> <p>EXAMPLE 2 Sets the wait time before system startup to 20 minutes.</p> <pre>XSCF> setpowerupdelay -c wait -s 20</pre>								

setpowerupdelay(8)

EXIT STATUS	The following exit values are returned:	
	0	Successful completion.
	>0	An error occurred.
SEE ALSO	showpowerupdelay (8)	

NAME	setprivileges - assign user privileges
SYNOPSIS	setprivileges <i>user</i> [<i>privileges</i>] [<i>domainprivilege@domains</i>] setprivileges -h
DESCRIPTION	<p>setprivileges(8) assigns privileges to an XSCF user. setprivileges modifies only local privileges data. Multiple privileges are separated by one or more spaces. There is a maximum of 100 unique users to whom privileges can be assigned. Each of the 100 unique user can be assigned more than one privilege. A list of privileges can be found in the OPERANDS section.</p> <p>The privileges domainop, domainmgr, and domainadm must be assigned to a specific domain. Other privileges do not have this ability. Refer to the OPERANDS section and EXAMPLE 1 for details.</p> <p>If no privileges are specified, setprivileges deletes any local privilege data for the specified user. Subsequently, the user's privilege data is looked up in Lightweight Directory Access Protocol (LDAP), if LDAP privilege lookup is enabled.</p> <p>If the none privilege is specified, the specified user does not have any privileges, regardless of privilege data in LDAP.</p>
Privileges	You must have useradm privileges to run this command.
OPTIONS	<p>The following option is supported:</p> <p>-h Displays usage statement.</p> <p> When used with other options or operands, an error occurs.</p>

OPERANDS

The following operands are supported:

domainprivilege@domains

Specifies *domainadm*, *domainmgr*, or *domainop* privileges for a specific domain or domains.

The following are valid values for *domainprivilege*, each of which must be used with *@domains*:

domainadm Can perform all operations and view status on the hardware assigned to the domains on which this privilege is held (assign, unassign, power, and so on). Can perform all operations on domains on which this privilege is held. Can view all states of domains on which this privilege is held.

domainmgr Can reboot and power on and off all domains on which this privilege is held. Can view all states of all hardware assigned to the domains on which this privilege is held. Can view all states of domains on which this privilege is held.

domainop Can view all states of all the hardware assigned to the domains on which this privilege is held. Can view all states of all domains on which this privilege is held.

domains Specifies a domain or domains, using the appropriate value for *domainprivilege* with the @ symbol and the *domains* descriptor:

To specify a single domain, use the @ symbol followed by a single domain number. Example: *domainadm@3*.

To specify a range of domains, use a "-" to indicate to start and end of the domains in the range, inclusive. Example: *domainadm@3-4*.

To specify multiple single domains and multiple domain ranges, separate the domains or domain ranges with commas. Do not repeat domains or cause them to overlap or an error will result. Example: *domainadm@1-2, 4*.

privileges

The following are valid values for *privileges*:

auditadm	Can configure auditing. Can delete audit trail.
auditop	Can view all audit state and audit trail.
fieldeng	Can perform all operations reserved for field engineers and authorized service personnel.
none	Cannot perform any operations on the Service Processor that require privilege, even if privileges are set for the user in LDAP. This privilege allows the administrator to restrict access to such operations on the Service Processor and domains.
platadm	Can perform all Service Processor configuration other than the useradm and auditadm tasks. Can assign and unassign hardware from domains, perform domain and XSCF power operations and all operations on domain hardware (assign, unassign, power, and so on). Can perform Service Processor failover operations and view all platform states.
platop	Can view all platform states but not perform any modifications.
useradm	Can create, delete, disable, or enable user accounts. Can change a user's password and password properties (for example, <i>expiry</i>). Can modify a user's privileges.

user
Specifies a valid user name.

EXAMPLES

EXAMPLE 1 Setting Privileges for JSmith
XSCF> **setprivileges jsmith platadm domainadm@1-4,6,9**

EXAMPLE 2 Removing All Privileges for JSmith
XSCF> **setprivileges jsmith none**

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

setpasswordpolicy (8), **showuser (8)**

setprivileges(8)



NAME	setroute - set routing information for an XSCF network interface								
SYNOPSIS	<p>setroute -c{add del} -n <i>address</i> [-m <i>address</i>] [-g <i>address</i>] <i>interface</i></p> <p>setroute -h</p>								
DESCRIPTION	<p>setroute(8) command sets routing information for an XSCF network interface.</p> <p>Up to eight routing information items can be registered for each network interface. Any attempt to register more than eight items causes an error.</p>								
Privileges	<p>You must have platadm privilege to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-c {add del}</td><td>Specifies a function for routing information. One of the following values can be specified. If none of them is specified, an error occurs.</td></tr> <tr> <td>add</td><td>Adds routing information.</td></tr> <tr> <td>del</td><td>Deletes routing information.</td></tr> <tr> <td>-g <i>address</i></td><td>Specifies a gateway address used for routing. To specify <i>address</i>, use the standard form of four integer values delimited by "." (periods). For example, use <i>xxx.xxx.xxx.xxx</i>, where <i>xxx</i> is an integer from 0-255. Zero suppression can be used to specify the integer.</td></tr> </table> <p>You cannot specify the loopback address (127.0.0.0/8), the network address, or a broadcast address.</p>	-c {add del}	Specifies a function for routing information. One of the following values can be specified. If none of them is specified, an error occurs.	add	Adds routing information.	del	Deletes routing information.	-g <i>address</i>	Specifies a gateway address used for routing. To specify <i>address</i> , use the standard form of four integer values delimited by "." (periods). For example, use <i>xxx.xxx.xxx.xxx</i> , where <i>xxx</i> is an integer from 0-255. Zero suppression can be used to specify the integer.
-c {add del}	Specifies a function for routing information. One of the following values can be specified. If none of them is specified, an error occurs.								
add	Adds routing information.								
del	Deletes routing information.								
-g <i>address</i>	Specifies a gateway address used for routing. To specify <i>address</i> , use the standard form of four integer values delimited by "." (periods). For example, use <i>xxx.xxx.xxx.xxx</i> , where <i>xxx</i> is an integer from 0-255. Zero suppression can be used to specify the integer.								

-h	Displays usage statement. When used with other options or operands, an error occurs.
-m <i>address</i>	<p>Specifies the netmask to which routing information is forwarded. To specify <i>address</i>, use the standard form of four integer values delimited by "." (periods). For example, use <i>xxx.xxx.xxx.xxx</i>, where <i>xxx</i> is an integer from 0-255. Zero suppression can be used to specify the integer.</p> <p>If you omitted the -m option, or if the destination IP address is other than 0.0.0.0 and you specified 0.0.0.0 to the netmask, any of the netmask will be set according to the address specified by using the -n option.</p> <ul style="list-style-type: none"> • In case of a "class A" address: If the host portion of the address (lower 24 bits) is "0" (e.g. 20.0.0.0), then the netmask value 255.0.0.0 will be set. If the host portion of the address (lower 24 bits) is other than "0" (e.g. 20.18.108.10), then the netmask value 255.255.255.255 will be set. • In case of a "class B" address: If the host portion of the address (lower 16 bits) is "0" (e.g. 136.18.0.0), then the netmask value 255.255.0.0 will be set. If the host portion of the address (lower 16 bits) is other than "0" (e.g. 136.18.108.10), then the netmask value 255.255.255.255 will be set. • In case of a "class C" address: If the host portion of the address (lower 8 bits) is "0" (e.g. 200.18.108.0), then the netmask value 255.255.255.0 will be set. If the host portion of the address (lower 8 bits) is other than "0" (e.g. 200.18.108.10), then the netmask value 255.255.255.255 will be set. <p>If you specified 0.0.0.0 in the -n option, you must specify 0.0.0.0 in the -m option or you must omit the -m option.</p>
-n <i>address</i>	<p>Specifies an IP address to which routing information is forwarded. To specify <i>address</i>, use the standard form of four integer values delimited by "." (periods). For example, use <i>xxx.xxx.xxx.xxx</i>, where <i>xxx</i> is an integer from 0-255. Zero suppression can be used to specify the integer.</p> <p>If 0.0.0.0 is specified for <i>address</i>, the default routing information is set.</p>

OPERANDS The following operand is supported:

<i>interface</i>	Specifies the network interface to be set with routing information. One of the following values can be specified: <ul style="list-style-type: none">• In M3000/M4000/M5000 servers: For XSCF unit 0: <table><tr><td>xscf#0-lan#0</td><td>XSCF-LAN#0</td></tr><tr><td>xscf#0-lan#1</td><td>XSCF-LAN#1</td></tr></table> For abbreviation: <table><tr><td>lan#0</td><td>XSCF-LAN#0</td></tr><tr><td>lan#1</td><td>XSCF-LAN#1</td></tr></table><ul style="list-style-type: none">• In M8000/M9000 servers: For XSCF unit 0: <table><tr><td>xscf#0-lan#0</td><td>XSCF-LAN#0</td></tr><tr><td>xscf#0-lan#1</td><td>XSCF-LAN#1</td></tr></table> For XSCF unit 1: <table><tr><td>xscf#1-lan#0</td><td>XSCF-LAN#0</td></tr><tr><td>xscf#1-lan#1</td><td>XSCF-LAN#1</td></tr></table>	xscf#0-lan#0	XSCF-LAN#0	xscf#0-lan#1	XSCF-LAN#1	lan#0	XSCF-LAN#0	lan#1	XSCF-LAN#1	xscf#0-lan#0	XSCF-LAN#0	xscf#0-lan#1	XSCF-LAN#1	xscf#1-lan#0	XSCF-LAN#0	xscf#1-lan#1	XSCF-LAN#1
xscf#0-lan#0	XSCF-LAN#0																
xscf#0-lan#1	XSCF-LAN#1																
lan#0	XSCF-LAN#0																
lan#1	XSCF-LAN#1																
xscf#0-lan#0	XSCF-LAN#0																
xscf#0-lan#1	XSCF-LAN#1																
xscf#1-lan#0	XSCF-LAN#0																
xscf#1-lan#1	XSCF-LAN#1																

**EXTENDED
DESCRIPTION**

- In the following cases, the `setroute(8)` command results in an error.
 - When you tried to set more than eight routing information
 - When the netmask that specified by using the `-m addr` option does not correspond to any of the cases below:
 - Only the most significant bit is 1
 - Repeated 1 from the most significant bit
 - All bits are zero
 - When you set the routing to ISN
 - When you set a subnet which is the same with ISN
 - When you set a subnet which is the same with DSCP
 - On M8000/M9000 servers, when you set the routing to the takeover IP address
- Only the routing information that has been added by using the `setroute(8)` command can be deleted.

- To reflect the routing information to XSCF, execute the `applynetwork(8)` command. After reflected the information, use the `rebootxscf(8)` command to reset XSCF to complete the setting.
- The `showroute(8)` command can display the current routing information that is set for the XSCF network.

EXAMPLES

- EXAMPLE 1** Adds the routing of destination 192.168.1.0 and netmask 255.255.255.0 for XSCF-LAN#0 on XSCF unit 0.
- ```
XSCF> setroute -c add -n 192.168.1.0 -m 255.255.255.0 xscf#0-lan#0
```
- EXAMPLE 2** Adds the routing of destination 192.168.1.0 and gateway 192.168.1.1 for XSCF-LAN#1 on XSCF unit 0.
- ```
XSCF> setroute -c add -n 192.168.1.0 -g 192.168.1.1 xscf#0-lan#1
```
- EXAMPLE 3** Adds the routing of destination 192.168.1.0 and default netmask (255.255.255.0) for XSCF-LAN#1 on XSCF unit 0.
- ```
XSCF> setroute -c add -n 192.168.1.0 xscf#0-lan#1
```
- EXAMPLE 4** Deletes the routing of destination 192.168.1.0 and default netmask (255.255.255.0) from XSCF-LAN#1 on XSCF unit 0.
- ```
XSCF> setroute -c del -n 192.168.1.0 -m 255.255.255.0 xscf#0-lan#1
```
- EXAMPLE 5** Adds the routing of destination 192.168.1. 4 for XSCF-LAN#1 on XSCF unit 0.
- ```
XSCF> setroute -c add -n 192.168.1.4 xscf#0-lan#1
```
- EXAMPLE 6** Deletes the routing of destination 192.168.1. 4 from XSCF-LAN#1 on XSCF unit 0.
- ```
XSCF> setroute -c del -n 192.168.1.4 xscf#0-lan#1
```
- EXAMPLE 7** Adds routing information for the default gateway 192.168.10.1 for XSCF-LAN#1 on XSCF unit 0.
- ```
XSCF> setroute -c add -n 0.0.0.0 -g 192.168.10.1 xscf#0-lan#1
```

**EXIT STATUS**

The following exit values are returned:

- |    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

`applynetwork(8)`, `showroute(8)`



|                      |                                                                                                                                                                                                                                                                                                                                                                                                   |    |                                                                                      |                |                                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | setshutdowndelay - set the shutdown wait time at power interruption of the uninterruptible power supply (UPS)                                                                                                                                                                                                                                                                                     |    |                                                                                      |                |                                                                                                                                                                               |
| SYNOPSIS             | <b>setshutdowndelay</b> -s <i>time</i><br><b>setshutdowndelay</b> -h                                                                                                                                                                                                                                                                                                                              |    |                                                                                      |                |                                                                                                                                                                               |
| DESCRIPTION          | <p>The <code>setshutdowndelay(8)</code> command sets the wait time before the start of system shutdown for when power interruption occurs in a system connected to the UPS.</p> <p>The start of system shutdown can be delayed until the specified time. When power recovery is reported from the UPS within the specified time, shutdown will not occur.</p>                                     |    |                                                                                      |                |                                                                                                                                                                               |
| Privileges           | <p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>                                                                                                                                                                                                                            |    |                                                                                      |                |                                                                                                                                                                               |
| OPTIONS              | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-s <i>time</i></td><td>Specifies the wait time before the start of shutdown in units of seconds. Specify an integer number ranging from 0 to 9999 for <i>time</i>. The default value is 10 seconds.</td></tr></table> | -h | Displays usage statement. When used with other options or operands, an error occurs. | -s <i>time</i> | Specifies the wait time before the start of shutdown in units of seconds. Specify an integer number ranging from 0 to 9999 for <i>time</i> . The default value is 10 seconds. |
| -h                   | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                              |    |                                                                                      |                |                                                                                                                                                                               |
| -s <i>time</i>       | Specifies the wait time before the start of shutdown in units of seconds. Specify an integer number ranging from 0 to 9999 for <i>time</i> . The default value is 10 seconds.                                                                                                                                                                                                                     |    |                                                                                      |                |                                                                                                                                                                               |
| EXTENDED DESCRIPTION | The currently set wait time can be displayed by using the <code>showshutdowndelay(8)</code> command.                                                                                                                                                                                                                                                                                              |    |                                                                                      |                |                                                                                                                                                                               |
| EXAMPLES             | <p><b>EXAMPLE 1</b>    Sets 600 seconds as the wait time before the start of shutdown.</p> <pre>XSCF&gt; <b>setshutdowndelay -s 600</b></pre>                                                                                                                                                                                                                                                     |    |                                                                                      |                |                                                                                                                                                                               |
| EXIT STATUS          | <p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>&gt;0</td><td>An error occurred.</td></tr></table>                                                                                                                                                                                                                                | 0  | Successful completion.                                                               | >0             | An error occurred.                                                                                                                                                            |
| 0                    | Successful completion.                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |                |                                                                                                                                                                               |
| >0                   | An error occurred.                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                      |                |                                                                                                                                                                               |
| SEE ALSO             | <b>showshutdowndelay</b> (8)                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |                |                                                                                                                                                                               |

setshutdowndelay(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | setsmtp - set up the Simple Mail Transfer Protocol (SMTP) settings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SYNOPSIS    | <b>setsmtp</b> [-v]<br><b>setsmtp</b> [-s <i>variable=value</i> ] ...<br><b>setsmtp</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| DESCRIPTION | <p>setsmtp(8) sets up the SMTP configuration values.</p> <p>When used without options, this command prompts for the name of the SMTP email server to be used, and for the port and the Reply-To address to be used on outgoing email. Make sure that a valid email address is specified here. The -s option lets you specify SMTP settings noninteractively.</p> <p>After you have set up the email server and port have been set up using setsmtp(8), you can use setemailreport(8) to set up email report configuration data and send a test email message.</p> |
| Privileges  | <p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## OPTIONS

The following options are supported:

- h** Displays usage statement.
- When used with other options or operands, an error occurs.
- s *variable=value*** Sets SMTP.
- Valid entries for *variable* are:
- mailserver
  - port
  - auth
  - user
  - password
  - replyaddress
- Where:
- mailserver is specified by IP address or server name. Server name, if specified, must be resolvable.
  - port is the port address for replies.
  - auth is the authentication mechanism. Valid values are: none, pop, and smtp-auth.
  - user and password are for smtp mail service authentication.
  - replyaddress is the address to which replies are sent. This value can be specified in the format that complies with Section 3.4.1 of RFC 5322.
- v** Specifies verbose output.

## EXAMPLES

**EXAMPLE 1** Setting Up Mailserver and No Authentication in Noninteractive Mode

```
XSCF> setsmtp -s mailserver=10.4.1.1 -s auth=none
```

**EXAMPLE 2** Setting Up Authentication in Noninteractive Mode

```
XSCF> setsmtp -s auth=pop -s user=jsmith -s password=*****
```

**EXAMPLE 3** Setting Up SMTP Authentication in Interactive Mode

```
XSCF> setsmtp
Mail Server [10.4.1.1]:
Port [25]:
Authentication Mechanism [none]: smtp-auth
User Name []: jsmith
Password []: *****
Reply Address [useradm@company.com]:
```

**EXAMPLE 4** Setting Up Mailserver With Invalid Authentication Mechanism

```

XSCF> setsmtp
Mail Server [10.4.1.1]:
Port [25]:
Authentication Mechanism [none]: ?
Invalid value '?'. Valid authentication mechanism are: none pop smtp-auth
Authentication Mechanism [none]:
Reply Address [useradm@company.com]:

```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

**setemailreport(8)**, **setnameserver(8)**, **showsmtp(8)**



|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------|------------------------------|-------------------------------------------------|----|---------------------------|--|------------------------------------------------------------|---------------------------|----------------------------------------------|----------------------|-----------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                         | setsnmp - manage the SNMP agent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| SYNOPSIS                     | <pre> <b>setsnmp</b> enable [<i>mib_name</i>] <b>setsnmp</b> disable [<i>mib_name</i>] <b>setsnmp</b> addtraphost -t <i>type</i> -s <i>community-string</i> [-p <i>trap-port</i>] <i>traphost</i> <b>setsnmp</b> remtraphost -t <i>type</i> <i>traphost</i> <b>setsnmp</b> addv3traphost -u <i>username</i> -r <i>authentication-protocol</i> {-n <i>engine_id</i>   -i} [-a <i>authentication-password</i>] [-e <i>encryption-password</i>] [-p <i>trap-port</i>] <i>traphost</i> <b>setsnmp</b> remv3traphost -u <i>username</i> <i>traphost</i> <b>setsnmp</b> enablev1v2c <i>read-only-community-string</i> <b>setsnmp</b> disablev1v2c <b>setsnmp</b> [-l <i>system-location</i>] [-c <i>system-contact</i>] [-d <i>system-description</i>] [-p <i>agent-port</i>] <b>setsnmp</b> default <b>setsnmp</b> -h </pre>                                                                                |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| DESCRIPTION                  | setsnmp(8) enables or disables the SNMP agent, as well as configures the SNMP agent settings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| Privileges                   | <p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| OPTIONS                      | <p>The following options are supported:</p> <table> <tr> <td>-c <i>system-contact</i></td><td>Specifies the system contact information for the agent.</td></tr> <tr> <td>-d <i>system-description</i></td><td>Specifies the system description for the agent.</td></tr> <tr> <td>-h</td><td>Displays usage statement.</td></tr> <tr> <td></td><td>When used with other options or operands, an error occurs.</td></tr> <tr> <td>-l <i>system-location</i></td><td>Specifies the system location for the agent.</td></tr> <tr> <td>-p <i>agent-port</i></td><td>Specifies the listening port for the agent. The default is 161.</td></tr> <tr> <td>-s <i>community-string</i></td><td>Acts like a password to control access to the SNMP v1 and v2 agents. It is a clear text string which can be intercepted. For password encryption and no visibility, use addv3traphost instead.</td></tr> </table> | -c <i>system-contact</i> | Specifies the system contact information for the agent. | -d <i>system-description</i> | Specifies the system description for the agent. | -h | Displays usage statement. |  | When used with other options or operands, an error occurs. | -l <i>system-location</i> | Specifies the system location for the agent. | -p <i>agent-port</i> | Specifies the listening port for the agent. The default is 161. | -s <i>community-string</i> | Acts like a password to control access to the SNMP v1 and v2 agents. It is a clear text string which can be intercepted. For password encryption and no visibility, use addv3traphost instead. |
| -c <i>system-contact</i>     | Specifies the system contact information for the agent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| -d <i>system-description</i> | Specifies the system description for the agent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| -h                           | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
|                              | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| -l <i>system-location</i>    | Specifies the system location for the agent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| -p <i>agent-port</i>         | Specifies the listening port for the agent. The default is 161.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| -s <i>community-string</i>   | Acts like a password to control access to the SNMP v1 and v2 agents. It is a clear text string which can be intercepted. For password encryption and no visibility, use addv3traphost instead.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |

|                 |                                       |
|-----------------|---------------------------------------|
| <b>OPERANDS</b> | The following operands are supported: |
|-----------------|---------------------------------------|



`addtraphost` Enables the SNMP agent to send the chosen type of trap to the desired host. If no *trap-port* is provided, the default is 162. A community string is mandatory.

`addtraphost` takes the following options and operand:

|                                  |                                                                                                                                                                                                             |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-p trap-port</code>        | ID of the trap port. Default value is 162.                                                                                                                                                                  |
| <code>-s community-string</code> | Acts like a password to control access to the SNMP v1 and v2 agents. It is a clear text string which can be intercepted. For password encryption and no visibility, use <code>addv3traphost</code> instead. |
| <code>-t type</code>             | Type of trap. Valid trap types are:<br>v1 = The agent sends SNMPv1 traps<br>v2 = The agent sends SNMPv2 traps<br>inform = The agent sends inform notifications                                              |
| <i>traphost</i>                  | Host name or IP address of the trap host.                                                                                                                                                                   |

`addv3traphost` Enables the SNMP agent to send SNMPv3 traps or informs to the desired host. An authentication protocol must be chosen. Valid protocols are:

MD5 = Uses the MD5 algorithm for authentication

SHA = Uses SHA (Secure Hash Algorithm) for authentication

The encryption protocol used in all communication is DES (Data Encryption Standard). If the password option is not used, you will be prompted for a password. Passwords will be read but not echoed to the screen. `addv3traphost` takes the following options:

`-a authentication-password`

Sets the authentication password. Must be equal to or greater than 8 characters.

`-e encryption-password`

Sets the encryption password.

`-i`

Asks for an acknowledgment from the receiving host.

`-n engine_id`

Sets identifier of the local agent sending the trap. It can be the engine ID of the local SNMP agent or not but it must match the engine ID expected by the receiving host. Must start with "0x" and should consist of even hexadecimal characters or you will get an error.

`-p trap-port`

ID of the trap port. Default value is 162.

`-r authentication-protocol`

Sets the authentication protocol.

`traphost`

Host name or IP address of the trap host.

`-u username`

Specifies a valid user name.

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| default      | <p>Stops the SNMP agent and changes the SNMP configuration to the factory default settings. After using this option, SNMP must be configured again before the SNMP agent is restarted.</p> <p>When used with default, the command also stops the SNMP agent for Sun MC in servers running Sun MC. The Sun MC configuration is not affected, but to enable SNMP for Sun MC again, execute the <code>setsunmc(8)</code> command with its <code>-s</code> option – <b>setsunmc -s sunmc-server</b>, where <i>sunmc-server</i> is the server hostname previously set – then, execute <b>setsnmp enable</b>. And then execute <b>setsunmc enable</b>. For more information, see <code>setsunmc(8)</code>.</p>                                                                                                                                                                           |
| disable      | <p>When used alone or with the value <code>ALL</code> for the optional <i>mib_name</i>, stops the SNMP agent.</p> <p>When used with a value other than <code>ALL</code> for the optional <i>mib_name</i>, removes support for the targeted MIB module. If support remains for another MIB module, the SNMP agent remains enabled. If support for both MIB modules is removed, the SNMP agent is disabled and, therefore, stops. You can specify only one value at a time for <i>mib_name</i>.</p> <p><i>mib_name</i></p> <p style="padding-left: 40px;">Name of the MIB module to be disabled.</p> <p>Valid MIB modules are:</p> <p style="padding-left: 40px;"><code>SP_MIB</code> = XSCF extension MIB</p> <p style="padding-left: 40px;"><code>FM_MIB</code> = Fault Management MIB</p> <p style="padding-left: 40px;"><code>ALL</code> = All the MIB modules in this list.</p> |
| disablev1v2c | <p>Disables the SNMP agent from communicating using SNMPv1/v2c. These versions provide insecure SNMP communication.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enable        | <p>When used alone, activates the SNMP agent with support for all MIB modules.</p> <p>When used with the value <code>ALL</code> for the optional <i>mib_name</i>, activates the SNMP agent with support for all MIB modules.</p> <p>When used with a value other than <code>ALL</code> for the optional <i>mib_name</i>, adds support for the targeted MIB module and, if necessary, activates the SNMP agent. You can specify only one value at a time for <i>mib_name</i>.</p> <p><i>mib_name</i></p> <p>Name of the MIB module to be enabled.</p> <p>Valid MIB modules are:</p> <p><code>SP_MIB</code> = XSCF extension MIB</p> <p><code>FM_MIB</code> = Fault Management MIB</p> <p><code>ALL</code> = All the MIB modules in this list.</p> |
| enablev1v2c   | <p>Enables the SNMP agent to communicate using SNMPv1/v2c. These versions provide insecure SNMP communication, which is why the agent runs SNMPv3 by default. This agent is read-only. The only community string asked for is read-only.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| remtraphost   | <p>Disables the SNMP agent from sending the chosen type of trap to the desired host.</p> <p><code>-t type</code></p> <p>Type of trap. Valid trap types are:</p> <p><code>v1</code> = The agent will send SNMPv1 traps</p> <p><code>v2</code> = The agent will send SNMPv2 traps</p> <p><code>inform</code> = The agent will send inform notifications</p> <p><i>traphost</i></p> <p>Host name or IP address of the trap host.</p>                                                                                                                                                                                                                                                                                                                |
| remv3traphost | <p>Disables the SNMP agent from sending SNMPv3 traps to the desired host.</p> <p><i>traphost</i></p> <p>Host name or IP address of the trap host.</p> <p><code>-u username</code></p> <p>Specifies a valid user name.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**EXAMPLES****EXAMPLE 1** Setting Up System Information

```
XSCF> setsnmp -l sandiego -c username@company.com -d ff1
```

**EXAMPLE 2** Setting Up and SNMPv3 Trap Host With Password Options

```
XSCF> setsnmp addv3traphost -u jsmith -n 0x### -r SHA -a xxxxxxxx \
-e yyyyyyyy fiche
```

**EXAMPLE 3** Setting Up and SNMPv3 Trap Host without Password Options

```
XSCF> setsnmp addv3traphost -u bob -i -r SHA fiche
Authentication Password:
Encryption Password:
```

**EXAMPLE 4** Starting the Agent

```
XSCF> setsnmp enable SP_MIB
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

**setsunmc(8)**, **showsnmp(8)**



|             |                                                                                                                                                                                                                                                                                                                                                                                                               |    |                           |  |                                                            |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------|--|------------------------------------------------------------|
| NAME        | setsnmpusm - specify the SNMPv3 agent's User-based Security Model (USM) configuration                                                                                                                                                                                                                                                                                                                         |    |                           |  |                                                            |
| SYNOPSIS    | <p><b>setsnmpusm</b> create -a <i>authentication_protocol</i> [-p <i>authentication_password</i>] [-e <i>encryption_password</i>] <i>user</i></p> <p><b>setsnmpusm</b> delete <i>user</i></p> <p><b>setsnmpusm</b> clone -u <i>clone_user</i> <i>user</i></p> <p><b>setsnmpusm</b> passwd [-c {auth   encrypt}] [-o <i>old_password</i>] [-n <i>new_password</i>] <i>user</i></p> <p><b>setsnmpusm</b> -h</p> |    |                           |  |                                                            |
| DESCRIPTION | setsnmpusm(8) modifies the SNMP Agent's USM configuration.                                                                                                                                                                                                                                                                                                                                                    |    |                           |  |                                                            |
| Privileges  | <p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                           |    |                           |  |                                                            |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr></table>                                                                                                                                                                                                        | -h | Displays usage statement. |  | When used with other options or operands, an error occurs. |
| -h          | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                     |    |                           |  |                                                            |
|             | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                    |    |                           |  |                                                            |

**OPERANDS**

The following operands are supported:

- `clone` Makes the supplied user known to the agent for subsequent SNMP communication with the identical settings as the specified *clone\_user*.
- `-u clone_user` Specifies a valid user name of the user settings to be cloned.
- `user` Specifies a different user name for the clone of *clone\_user*.



|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| create | <p>Makes the supplied user known to the agent for subsequent SNMP communication. When used without the <code>-a</code> or <code>-p</code> options, <code>create</code> displays a prompt for passwords and reads them without echoing them to the screen. The encryption protocol used in all SNMP communication is Data Encryption Standard (DES). An authentication protocol must be chosen for SNMP communication. Possible values are MD5 Algorithm and Secure Hash Algorithm (SHA).</p> |
|        | <p><i>user</i></p> <p>Specifies a valid user name.</p> <p><code>-a authentication_protocol</code></p> <p>Specifies the authentication protocol.</p> <p><code>-e encryption_password</code></p> <p>Specifies the encryption password. Must be equal to or greater than 8 characters.</p> <p><code>-p authentication_password</code></p> <p>Specifies the authentication password. Must be equal to or greater than 8 characters.</p>                                                          |
| delete | <p>Removes the supplied user making the user unknown to the agent for subsequent SNMP communication.</p>                                                                                                                                                                                                                                                                                                                                                                                     |
|        | <p><i>user</i> Specifies a valid user name.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| passwd | <p>Changes the appropriate password for the specified user. The changed password is either the authentication password or the encrypted password, or both, if <code>-c</code> is not used. If <code>-c</code> is not used then both passwords must be the same or an error is generated. With no options, <code>password</code> displays a prompt for the passwords and reads them without echoing them to the screen.</p>                                                                   |
|        | <p><code>-c auth encrypt</code> Specifies whether to change the authentication password or the encrypted password.</p>                                                                                                                                                                                                                                                                                                                                                                       |
|        | <p><code>-n new_password</code> Specifies the new password. The password must be equal to or greater than 8 characters.</p>                                                                                                                                                                                                                                                                                                                                                                  |
|        | <p><code>-o old_password</code> Specifies the old password.</p>                                                                                                                                                                                                                                                                                                                                                                                                                              |
|        | <p><i>user</i> Specifies a valid user name.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                              |

EXAMPLES

**EXAMPLE 1** Adding a User With Password Options

```
XSCF> setsnmpusm create -a SHA -p xxxxxxxx -e yyyyyyyy jsmith
```

**EXAMPLE 2** Adding a User Without Specifying Password Options

```
XSCF> setsnmpusm create -a SHA bob
Authetication Password:
Encryption Password:
```

**EXAMPLE 3** Cloning a User

```
XSCF> setsnmpusm clone -u sue joe
Authentication Password:
Encryption Password:
```

**EXAMPLE 4** Deleting a User

```
XSCF> setsnmpusm delete joe
```

EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

SEE ALSO

**showsnpusm** (8)

|             |                                                                                                                                                                                                                                                                                                                               |    |                           |  |                                                            |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------|--|------------------------------------------------------------|
| NAME        | setsnmpvacm - modify the SNMPv3 agent's View-based Access Control Model (VACM) configuration                                                                                                                                                                                                                                  |    |                           |  |                                                            |
| SYNOPSIS    | <pre>setsnmpvacm creategroup -u username groupname setsnmpvacm deletegroup -u username groupname setsnmpvacm createview -s OID_subtree [-e] [-m OID_Mask] viewname setsnmpvacm deleteview -s OID_subtree viewname setsnmpvacm createaccess -r read_viewname groupname setsnmpvacm deleteaccess groupname setsnmpvacm -h</pre> |    |                           |  |                                                            |
| DESCRIPTION | setsnmpvacm(8) modifies the SNMP Agent's VACM configuration. Using this command requires a basic knowledge of SNMP.                                                                                                                                                                                                           |    |                           |  |                                                            |
| Privileges  | <p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                           |    |                           |  |                                                            |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr></table>                                                                                                                        | -h | Displays usage statement. |  | When used with other options or operands, an error occurs. |
| -h          | Displays usage statement.                                                                                                                                                                                                                                                                                                     |    |                           |  |                                                            |
|             | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                    |    |                           |  |                                                            |

**OPERANDS**

The following operands are supported:

|                         |                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>createaccess</b>     | Sets access to a MIB view for the specified group.                                                                                                                                                                                          |
| <i>-r read_viewname</i> | Specifies an SNMP Agent view.                                                                                                                                                                                                               |
| <i>groupname</i>        | Specifies a valid group name.                                                                                                                                                                                                               |
| <b>creategroup</b>      | Sets up a group for the specified user for view access.                                                                                                                                                                                     |
| <i>-u username</i>      | Specifies a valid user name.                                                                                                                                                                                                                |
| <i>groupname</i>        | Specifies a valid group name.                                                                                                                                                                                                               |
| <b>createview</b>       | Sets up a view of the SNMP Agent exported MIB information. View access is limited to read-only for this Agent. The view is identified through a MIB OID subtree and can be limited to specific portions of that subtree using the OID Mask. |
| <i>-e</i>               | Specifies an excluded view. The default is an included view.                                                                                                                                                                                |
| <i>-m OID_Mask</i>      | Specifies a valid OID subtree mask. By default, the mask is <code>ff</code> (entire subtree).                                                                                                                                               |
| <i>-s OID_subtree</i>   | Specifies a MIB OID subtree. Values start at <code>.1</code> for the entire MIB tree.                                                                                                                                                       |
| <i>viewname</i>         | Specifies a valid view name.                                                                                                                                                                                                                |
| <b>deleteaccess</b>     | Removes access entry.                                                                                                                                                                                                                       |
| <i>groupname</i>        | Specifies a valid group name.                                                                                                                                                                                                               |
| <b>deletegroup</b>      | Removes a group from use.                                                                                                                                                                                                                   |
| <i>-u username</i>      | Specifies a valid user name.                                                                                                                                                                                                                |
| <i>groupname</i>        | Specifies a valid group name.                                                                                                                                                                                                               |
| <b>deleteview</b>       | Removes this view from use.                                                                                                                                                                                                                 |
| <i>-s OID_subtree</i>   | Specifies a MIB OID subtree. Values start at <code>.1</code> for the entire MIB tree.                                                                                                                                                       |
| <i>viewname</i>         | Specifies a valid view name.                                                                                                                                                                                                                |

**EXAMPLES****EXAMPLE 1** Create a Group

```
XSCF> setsnmpvacm creategroup -u jsmith admin
```

**EXAMPLE 2** Create a View of the Entire MIB

```
XSCF> setsnmpvacm createview -s .1 all_view
```

**EXAMPLE 3** Create a View Where the Subtree Is Excluded

```
XSCF> setsnmpvacm createview -e -s .1.3.6.1.2.1.1 -m fe excl_view
```

**EXAMPLE 4** Create Access

```
XSCF> setsnmpvacm createaccess -r all admin
```

**EXIT STATUS** The following exit values are returned:

0 Successful completion.

>0 An error occurred.

**SEE ALSO** `showsnmpvacm(8)`



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | setssh - configure the settings for the Secure Shell (SSH) service used in the XSCF network                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SYNOPSIS    | <pre> <b>setssh</b> [ [-q] {-y   -n}] -c enable  <b>setssh</b> -c disable  <b>setssh</b> [ [-q] {-y   -n}] -m dscp=<i>mode</i>  <b>setssh</b> -c addpubkey [-u <i>user_name</i>]  <b>setssh</b> -c delpubkey {-a   -s <i>line</i>} [-u <i>user_name</i>]  <b>setssh</b> [ [-q] {-y   -n}] -c genhostkey  <b>setssh</b> -h </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DESCRIPTION | <p>The setssh(8) command configures the settings for the SSH service used in the XSCF network.</p> <p>Only SSH2 is supported for XSCF. You can configure the following:</p> <ul style="list-style-type: none"> <li>■ Starts or stops the SSH service used in the XSCF network</li> <li>■ Accesses control from domain to the SSH service <ul style="list-style-type: none"> <li>Sets whether or not to permit access from domain to the SSH service via the Domain to Service Processor Communications Protocol (DSCP).</li> </ul> </li> <li>■ Generates the host public key</li> <li>■ Registers or deletes the user public key <ul style="list-style-type: none"> <li>The user public key can be registered on each user account. Per user account, multiple user public keys can be registered. Per user account, the user public keys can be registered up to 1,023 characters including the linefeed.</li> </ul> </li> </ul> |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none"> <li>■ To start or stop the SSH service, to control access from domain to the SSH service, and to generate the host public key: <pre>platadm</pre> </li> <li>■ To register or delete the user public key of other user account: <pre>useradm</pre> </li> <li>■ To register or delete the user public key of the current login user account: <pre>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</pre> </li> </ul> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                       |

**OPTIONS**

The following options are supported:

- a                      Deletes all registered user public keys. Should be specified with "-c delpubkey."
- c addpubkey           Registers the user public key.
- c delpubkey           Deletes the user public key.
- c {enable|disable}   Specifies whether to enable the SSH service. One of the following values can be specified:
  - enable                Starts the SSH service.
  - disable               Stops the SSH service.
- c genhostkey           Generates a host public key for SSH2.
- h                      Displays usage statement. When used with other options or operands, an error occurs.
- m dscp=*mode*        Specifies whether or not to permit access from domain to the SSH service via DSCP. One of the following values can be specified. It is set to `accept` by default.
  - accept                Permits access to the SSH service.
  - deny                  Restricts access to the SSH service.
- n                      Automatically answers "n" (no) to all prompts.
- q                      Suppresses all messages to stdout, including prompts.
- s *line*               Specifies the user public key number to delete. For line, specify the number which displayed after the `showssh -c pubkey` command executed. Should be specified with "-c delpubkey."
- u *user\_name*        Specifies the user account name to register or delete the user public key. Should be specified with "-c addpubkey" or "-c delpubkey." When the -u option omitted, the user public key of the current login user account becomes the target.
- y                      Automatically answers "y" (yes) to all prompts.

**EXTENDED DESCRIPTION**

- If you are an Active Directory or LDAP/SSL user, you cannot register the user public key. Log in to the XSCF network through the SSH service by the authentication not with the user public key but with the password.
- When a host public key is created, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.



- When a host public key already exists, if you generate a host public key, a prompt to confirm the update is displayed. Enter "y" to update or "n" to cancel the command.
- The `setssh(8)` command can register one user public key at a time.
- In time of `setssh(8)` command execution, finish the input of user public key by pressing Enter and then pressing "Ctrl" and "D" (EOF).
- In case the XSCF unit is duplicated configuration, the setting automatically reflected to the standby XSCF. When there is a defect on the standby XSCF, it leads to an error and the setting will be reflected to the active XSCF only.
- When you use the `setssh(8)` command to generate a host public key or to disable the SSH service (`setssh -c disable`), the SSH service is disabled immediately. In the case of disabling the SSH service, any open SSH sessions are terminated.

For all other settings using the `setssh(8)` command, you must reboot the XSCF using `rebootxscf(8)` command for the changes to take effect.

- Using the `showssh(8)` command, you can check the current settings of the SSH service.

## EXAMPLES

**EXAMPLE 1** Starts the SSH service.

```
XSCF> setssh -c enable
Continue? [y|n] :y
Please reset the XSCF by rebootxscf to apply the ssh settings.
```

**EXAMPLE 2** Starts the SSH service. Automatically replies with "y" to the prompt.

```
XSCF> setssh -y -c enable
Continue? [y|n] :y
Please reset the XSCF by rebootxscf to apply the ssh settings.
```

**EXAMPLE 3** Starts the SSH service. Automatically replies with "y" without displaying the prompt.

```
XSCF> setssh -q -y -c enable
```

**EXAMPLE 4** Stops the SSH service.

```
XSCF> setssh -c disable
```

**EXAMPLE 5** Generates a host public key for SSH2.

```
XSCF> setssh -c genhostkey
Host key create. Continue? [y|n] :y
Please reset the XSCF by rebootxscf to apply the ssh settings.
```

**EXAMPLE 6** Generates a SSH2 host public key, even if one already exists. Automatically replies with "y" to the prompt.

```
XSCF> setssh -c genhostkey -y
Host key already exists. The key will be updated. Continue? [y|n] :y
Please reset the XSCF by rebootxscf to apply the ssh settings.
```

**EXAMPLE 7** Generates a host public key for SSH2. Automatically replies with "y" without displaying the prompt.

```
XSCF> setssh -c genhostkey -q -y
```

**EXAMPLE 8** Registers the user public key. Finish the input of public key by pressing Enter and then pressing "Ctrl" and "D"

```
XSCF> setssh -c addpubkey
Please input a public key:
ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEAzFh95SohrDgpnN7zFCJCVNy+jazPTjNDxcid
QGbiYDCBttI4151Y0Sv85FJwDpSNHNKoVLMYLjtBmUMPbGgGVB61qskSv/
FeV44hefNCZMiXGItIIpK
P0nBK4XJpCFoFbPXNUHDw1rTD9icD5U/wRFGSRRxFI+Ub5oLRxN8+A8=abcd@example.com
[Enter]
[Ctrl]and[D]
```

**EXAMPLE 9** Registers the user public key by specifying the user name. Finish the input of public key by pressing Enter and then pressing "Ctrl" and "D".

```
XSCF> setssh -c addpubkey -u efgh
Please input a public key:
ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEAzFh95SohrDgpnN7zFCJCVNy+jazPTjNDxcid
QGbiYDCBttI4151Y0Sv85FJwDpSNHNKoVLMYLjtBmUMPbGgGVB61qskSv/
FeV44hefNCZMiXGItIIpK
P0nBK4XJpCFoFbPXNUHDw1rTD9icD5U/wRFGSRRxFI+Ub5oLRxN8+A8=abcd@example.com
[Enter]
[Ctrl]and[D]
```

**EXAMPLE 10** Specifies the public key number to delete the user public key.

```
XSCF> setssh -c delpubkey -s 1
1 ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAzFh95SohrDgpnN7zFCJCVNy+jazPTjNDxcid
QGbiYDCBttI4151Y0Sv85FJwDpSNHNKoVLMYLjtBmUMPbGgGVB61qskSv/
FeV44hefNCZMiXGItIIpK
P0nBK4XJpCFoFbPXNUHDw1rTD9icD5U/wRFGSRRxFI+Ub5oLRxN8+A8=abcd@example.com
```

**EXAMPLE 11** Deletes all user public keys.

```
XSCF> setssh -c delpubkey -a
```

**EXAMPLE 12** Restricts access from domain to the SSH service via DSCP.


```
XSCF> setssh -m dscp=deny
Continue? [y|n] :y
Please reset the XSCF by rebootxscf to apply the ssh settings.
```

**EXIT STATUS** The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

**SEE ALSO** `rebootxscf(8)`, `showssh(8)`



|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|---------|---------------------------|----|--------------------------------------------------------------------------------------|
| NAME                 | settnet - start or stop the Telnet service used in the XSCF network                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |
| SYNOPSIS             | <pre><b>settnet</b> -c {enable   disable}</pre> <pre><b>settnet</b> -h</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |
| DESCRIPTION          | settnet(8) command starts or stops the Telnet service used in the XSCF network.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |
| Privileges           | <p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |
| OPTIONS              | <p>The following options are supported:</p> <table> <tr> <td>-c {enable disable}</td><td>Specify whether to start the Telnet service. One of the following values can be specified. If none of them is specified, an error occurs.</td></tr> <tr> <td>enable</td><td>Starts the Telnet service.</td></tr> <tr> <td>disable</td><td>Stops the Telnet service.</td></tr> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                   | -c {enable disable} | Specify whether to start the Telnet service. One of the following values can be specified. If none of them is specified, an error occurs. | enable | Starts the Telnet service. | disable | Stops the Telnet service. | -h | Displays usage statement. When used with other options or operands, an error occurs. |
| -c {enable disable}  | Specify whether to start the Telnet service. One of the following values can be specified. If none of them is specified, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |
| enable               | Starts the Telnet service.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |
| disable              | Stops the Telnet service.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |
| -h                   | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |
| EXTENDED DESCRIPTION | <div>  <div> <p><b>Caution</b> – To stop the Telnet service, you must execute the rebootxscf(8) command to reset XSCF. If you fail to reset XSCF, problems might occur when you start the Telnet service next time.</p> </div> </div> <hr/> <ul style="list-style-type: none"> <li>■ In the M8000/M9000 servers, the setting automatically reflected to the standby XSCF. When there's a defect on the standby XSCF, it leads to an error and the setting will be reflected to the active XSCF only.</li> <li>■ Stop of the Telnet service is reflected immediately after the settnet(8) command executed. Any open Telnet sessions are terminated.</li> <li>■ Using the showtnet(8) command, you can check the current settings of the Telnet service.</li> </ul> |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |
| EXAMPLES             | <p><b>EXAMPLE 1</b> Starts the Telnet service.</p> <pre>XSCF&gt; <b>settnet -c enable</b></pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                                                                                                                                           |        |                            |         |                           |    |                                                                                      |

**EXAMPLE 2** Stops the Telnet service.

```
XSCF> settelnet -c disable
```

Please reset the XSCF by `rebootxscf` to apply the telnet settings.

**EXIT STATUS** The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO** `rebootxscf(8)`, `showtelnet(8)`

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | settimezone - set the time zone and Daylight Saving Time of XSCF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SYNOPSIS    | <pre> <b>settimezone</b> -c settz -s <i>timezone</i>  <b>settimezone</b> -c settz -a [-M]  <b>settimezone</b> -c adddst -b <i>std</i> -o <i>offset</i> -d <i>dst</i> [-p <i>offset</i>] -f <i>date</i> [/time] -t <i>date</i> [/time]  <b>settimezone</b> -c deldst -b <i>std</i> -o <i>offset</i>  <b>settimezone</b> -h </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DESCRIPTION | <p>The <code>settimezone(8)</code> command sets the time zone and Daylight Saving Time of XSCF.</p> <p>The time zone provided by default is pursuant to POSIX standard.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Privileges  | <p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OPTIONS     | <p>The following options are supported:</p> <ul style="list-style-type: none"> <li>-a                   Lists the time zones that can be set.</li> <li>-c settz           Sets the time zone which complies with POSIX standards. The time zone is applied immediately after the <code>settimezone(8)</code> command executed.</li> <li>-c adddst          Manually sets the time zone and Daylight Saving Time. Daylight Saving Time complies with the data of time zone which has been specified by using the -b, -o, -d, -p, -f and -t options. In case you set the time zone manually, the time zone data which set by using the "-c settz" option will be ignored. When you execute the <code>settimezone(8)</code> command and then execute the login procedures to XSCF, the configuration will be applied.</li> <li>-c deldst          Deletes the time zone and Daylight Saving Time which set manually. After the deletion of Daylight Saving Time which set manually, XSCF starts operating with the time zone set by using the "-c settz" option. When you execute the <code>settimezone(8)</code> command and then execute the login procedures to XSCF, the configuration will be applied.</li> <li>-b <i>std</i>           Specifies the abbreviations of time zone. For <i>std</i>, specify an abbreviation of 3 letters or more. You can specify it in the format which complies with RFC2822. Specify this option in combination with "-c adddst" or "-c deldst."</li> </ul> |

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-d <i>dst</i></code>          | Specifies the zone name of Daylight Saving Time. For <i>dst</i> , specify the alphabets of 3 letters or more. You can specify it in the format which complies with RFC2822. Specify this option in combination with " <code>-c adddst.</code> "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <code>-f <i>date</i> [/time]</code> | Specifies the starting time of Daylight Saving Time. It should be specified in the same format as <i>date</i> in the <code>-t</code> option. You can specify <i>date</i> in any of the following formats.<br><br>Mm.w.d<br><i>Mm</i> : Specifies the month to start Daylight Saving Time. For <i>m</i> , you can specify any integer from 1 to 12.<br><i>w</i> : Specifies the week to start Daylight Saving Time. You can specify the integer from 1 to 5, "1" for the first week and "5" for the last week in the month.<br><i>d</i> : Specifies the day of the week to start Daylight Saving Time. You can specify the integer from 0 to 6, "0" for Sunday and "6" for Saturday.<br><br>Jn<br><i>Jn</i> : Specifies the sequential day in the year to start Daylight Saving Time. You can specify the integer from 1 to 365, "1" for January 1st. It does not count the leap-year day. If you specified 365, it corresponds to December 31st even in a leap year.<br><br>n<br><i>n</i> : Specifies the sequential day in the year to start Daylight Saving Time. You can specify the integer from 1 to 365, "1" for January 2nd. It counts the leap-year day.<br><br>In <i>time</i> , you specify the time. You can specify it in the following format.<br><br>hh:mm:ss                      Specifies the time in " <i>hh:mm:ss</i> " format. <i>hh</i> is 00–23, <i>mm</i> is 00–59, <i>ss</i> is 00–60. In case omitted, "02:00:00." |
| <code>-h</code>                     | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <code>-M</code>                     | Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-d dst</code>          | Specifies the zone name of Daylight Saving Time. For <i>dst</i> , specify the alphabets of 3 letters or more. You can specify it in the format which complies with RFC2822. Specify this option in combination with " <code>-c adddst.</code> "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <code>-f date [/time]</code> | Specifies the starting time of Daylight Saving Time. It should be specified in the same format as <i>date</i> in the <code>-t</code> option. You can specify <i>date</i> in any of the following formats.<br><br>Mm.w.d<br><i>Mm</i> : Specifies the month to start Daylight Saving Time. For <i>m</i> , you can specify any integer from 1 to 12.<br><i>w</i> : Specifies the week to start Daylight Saving Time. You can specify the integer from 1 to 5, "1" for the first week and "5" for the last week in the month.<br><i>d</i> : Specifies the day of the week to start Daylight Saving Time. You can specify the integer from 0 to 6, "0" for Sunday and "6" for Saturday.<br><br>Jn<br><i>Jn</i> : Specifies the sequential day in the year to start Daylight Saving Time. You can specify the integer from 1 to 365, "1" for January 1st. It does not count the leap-year day. If you specified 365, it corresponds to December 31st even in a leap year.<br><br>n<br><i>n</i> : Specifies the sequential day in the year to start Daylight Saving Time. You can specify the integer from 1 to 365, "1" for January 2nd. It counts the leap-year day.<br><br>In <i>time</i> , you specify the time. You can specify it in the following format.<br><br>hh:mm:ss                      Specifies the time in " <i>hh:mm:ss</i> " format. <i>hh</i> is 00–23, <i>mm</i> is 00–59, <i>ss</i> is 00–60. In case omitted, "02:00:00." |
| <code>-h</code>              | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <code>-M</code>              | Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-o offset</code> | Specifies the offset of time zone and Greenwich mean time (GMT). Specify this option in combination with " <code>-c adddst</code> " or " <code>-c destdst</code> ." You can specify <i>offset</i> in the following format.<br><br>GMT{+ -}hh[:mm[:ss]]<br><br>GMT                      Greenwich mean time<br><br>{+ -}                    Specifies "-" to set the standard time to the time which is ahead of GMT. (To adjust to the local time east to Greenwich, the offset is a negative value.) Specifies "+" to set the standard time to the time which is behind the GMT. (To adjust to the local tome west to Greenwich, the offset is a positive value.)<br><br>hh[:mm[:ss]]           Specifies the offset time. <i>hh</i> is 00-23, <i>mm</i> is 00-59, <i>ss</i> is 00-59. |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-p <i>offset</i></code>   | <p>Specifies the offset of Daylight Saving Time and Greenwich mean time (GMT). Specify this option in combination with "<code>-c adddst.</code>" In case omitted, it is 1 hour ahead of the offset time that specified using the <code>-o</code> option. You can specify <i>offset</i> in the following format.</p> <p>GMT{+ -}hh[:mm[:ss]]</p> <p>GMT                      Greenwich mean time</p> <p>{+ -}</p> <p>Specifies "-" to set the standard time to the time which is ahead of GMT. (To adjust to the local time east to Greenwich, the offset is a negative value.) Specifies "+" to set the standard time to the time which is behind the GMT. (To adjust to the local time west to Greenwich, the offset is a positive value.)</p> <p>hh[:mm[:ss]]            Specifies the offset time. <i>hh</i> is 00–23, <i>mm</i> is 00–59, <i>ss</i> is 00–59.</p> |
| <code>-s <i>timezone</i></code> | <p>Specifies the time zone. Specify this option in combination with "<code>-c settz.</code>" One of the time zone displayed by the <code>-a</code> option can be specified for <i>timezone</i>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

`-t date [/time]` Specifies the termination time of Daylight Saving Time. It should be specified in the same format as *date* in the `-f` option. You can specify *date* in any of the following formats.

*Mm.w.d*

*Mm*: Specifies the month to terminate Daylight Saving Time. For *m*, you can specify any integer from 1 to 12.

*w*: Specifies the week to terminate Daylight Saving Time. You can specify the integer from 1 to 5, "1" for the first week and "5" for the last week in the month.

*d*: Specifies the day of the week to terminate Daylight Saving Time. You can specify the integer from 0 to 6, "0" for Sunday and "6" for Saturday.

*Jn*

*Jn*: Specifies the sequential day in the year to terminate Daylight Saving Time. You can specify the integer from 1 to 365, "1" for January 1st. It does not count the leap-year day. If you specified 365, it corresponds to December 31st even in a leap year.

*n*

*n*: Specifies the sequential day in the year to terminate Daylight Saving Time. You can specify the integer from 1 to 365, "1" for January 2nd. It counts the leap-year day.

In *time*, you specify the time. You can specify it in the following format.

*hh:mm:ss*

Specifies the time in "*hh:mm:ss*" format. *hh* is 00–23, *mm* is 00–59, *ss* is 00–60. In case omitted, "02:00:00."

## EXTENDED DESCRIPTION

- You cannot specify the years of validity for time zone and Daylight Saving Time. In case the Daylight Saving Time is changed each year, you need to set anew by using the `settimezone(8)` command.
- When Daylight Saving Time has been set, XSCF is not affected by the time zone.
- The setting of Daylight Saving Time using `-c adddst` results in an error in any of the following cases:
  - The *Jn* or *n* format is used and the period between start and termination is less than 14 days.
  - The *Mm.w.d* format is used, start and termination are in the same month, and the period between them is less than two weeks.
  - The value specified for `-o offset` is smaller than the value of `-p offset`.
  - The difference between `-o offset` and `-p offset` is larger than 24 hours.

- The addition of the offset time to the standard time which has been set by the `settimezone(8)` command comes to GMT.
- The current time zone settings can be checked by using the `showtimezone(8)` command.
- To apply the Daylight Saving Time information modified by the `"-c adddst"` or the `"-c adddst"` option, log out of XSCF and then log in again.

## EXAMPLES

**EXAMPLE 1** Sets "Asia/Tokyo" as the time zone.

```
XSCF> settimezone -c settz -s Asia/Tokyo
Asia/Tokyo
```

**EXAMPLE 2** Lists the time zones that can be set.

```
XSCF> settimezone -c settz -a
Africa/Abidjan
Africa/Accra
Africa/Addis_Ababa
Africa/Algiers
Africa/Asmara
Africa/Asmera
Africa/Bamako
Africa/Bangui
.
.
```

**EXAMPLE 3** Sets the Daylight Saving Time information as follows: abbreviation of time zone is JST, offset from GMT is +9, zone name of Daylight Saving Time is JDT, Daylight Saving Time is 1 hour ahead, and time period is from the last Sunday of March 2:00(JST) to the last Sunday of October 2:00(JDT).

```
XSCF> settimezone -c adddst -b JST -o GMT-9 -d JDT -f M3.5.0 -t M10.5.0
JST-9JDT,M3.5.0,M10.5.0
```

**EXAMPLE 4** Sets the Daylight Saving Time information as follows: abbreviation of time zone is JST, offset from GMT is +9, zone name of Daylight Saving Time is JDT, the offset of Daylight Saving Time from GMT is +10, and time period is from the first Sunday of April 0:00(JST) to the first Sunday of September 0:00(JDT).

```
XSCF> settimezone -c adddst -b JST -o GMT-9 -d JDT -p GMT-10 \
-f M4.1.0/00:00:00 -t M9.1.0/00:00:00
JST-9JDT-10,M4.1.0/00:00:00,M9.1.0/00:00:00
```

**EXAMPLE 5** Deletes the Daylight Saving Time information of current settings.

```
XSCF> settimezone -c deldst -b JST -o GMT-9
```

settimezone(8)

|             |                                                     |                        |
|-------------|-----------------------------------------------------|------------------------|
| EXIT STATUS | The following exit values are returned:             |                        |
|             | 0                                                   | Successful completion. |
|             | >0                                                  | An error occurred.     |
| SEE ALSO    | setdate ( 8 ) , showdate ( 8 ) , showtimezone ( 8 ) |                        |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                            |          |                                                                                                                                                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME               | setupfru - set up device hardware                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                            |          |                                                                                                                                                                                                                                            |
| SYNOPSIS           | <b>setupfru</b> [-m {y n}] [-x {1 4}] <i>device location</i><br><b>setupfru</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                            |          |                                                                                                                                                                                                                                            |
| DESCRIPTION        | <p>The setupfru(8) command makes hardware settings for the specified device.</p> <p>The setupfru(8) command is not supported on the M3000 server.</p> <p>Only a physical system board (PSB) can be specified as a device. After a PSB is added, the following settings can be specified for PSB:</p> <table> <tr> <td>XSB type</td><td>To use an added PSB in the system, hardware resources on the PSB must be logically divided and reconfigured as eXtended System Boards (XSBs). Two types of XSB are used: Uni-XSB and Quad-XSB. The Uni-XSB is configured with undivided PSB, and the Quad-XSB is configured with one of divided PSB into four parts. Specify either the Uni-XSB configuration or Quad-XSB configuration for the PSB.</td></tr> <tr> <td>Memory mirror mode</td><td>In mirror mode, data is mirrored by dividing the memory mounted on a PSB into two parts. Since the memory is divided into two parts, the memory capacity is halved, but data reliability increases. Specify whether to operate the memory in mirror mode.</td></tr> </table> | XSB type | To use an added PSB in the system, hardware resources on the PSB must be logically divided and reconfigured as eXtended System Boards (XSBs). Two types of XSB are used: Uni-XSB and Quad-XSB. The Uni-XSB is configured with undivided PSB, and the Quad-XSB is configured with one of divided PSB into four parts. Specify either the Uni-XSB configuration or Quad-XSB configuration for the PSB. | Memory mirror mode | In mirror mode, data is mirrored by dividing the memory mounted on a PSB into two parts. Since the memory is divided into two parts, the memory capacity is halved, but data reliability increases. Specify whether to operate the memory in mirror mode.  |          |                                                                                                                                                                                                                                            |
| XSB type           | To use an added PSB in the system, hardware resources on the PSB must be logically divided and reconfigured as eXtended System Boards (XSBs). Two types of XSB are used: Uni-XSB and Quad-XSB. The Uni-XSB is configured with undivided PSB, and the Quad-XSB is configured with one of divided PSB into four parts. Specify either the Uni-XSB configuration or Quad-XSB configuration for the PSB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                            |          |                                                                                                                                                                                                                                            |
| Memory mirror mode | In mirror mode, data is mirrored by dividing the memory mounted on a PSB into two parts. Since the memory is divided into two parts, the memory capacity is halved, but data reliability increases. Specify whether to operate the memory in mirror mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                            |          |                                                                                                                                                                                                                                            |
| Privileges         | <p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                            |          |                                                                                                                                                                                                                                            |
| OPTIONS            | <p>The following options are supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> <tr> <td>-m {y n}</td><td>Specifies whether to use the memory mounted on the XSB in mirror mode. Specify this option when sb is specified for <i>device</i>. Specify y to enable mirror mode; otherwise, specify n. If the -m option is omitted, the previous setting is inherited.</td></tr> <tr> <td>-x {1 4}</td><td>Specifies whether to configure PSB as a Uni-XSB or Quad-XSB. Specify this option when sb is specified for <i>device</i>. Specify 1 for Uni-XSB or specify 4 for Quad-XSB. If the -x option is omitted, the previous setting is inherited.</td></tr> </table>                                                                                                                                                                                                                                                                                                            | -h       | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                 | -m {y n}           | Specifies whether to use the memory mounted on the XSB in mirror mode. Specify this option when sb is specified for <i>device</i> . Specify y to enable mirror mode; otherwise, specify n. If the -m option is omitted, the previous setting is inherited. | -x {1 4} | Specifies whether to configure PSB as a Uni-XSB or Quad-XSB. Specify this option when sb is specified for <i>device</i> . Specify 1 for Uni-XSB or specify 4 for Quad-XSB. If the -x option is omitted, the previous setting is inherited. |
| -h                 | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                            |          |                                                                                                                                                                                                                                            |
| -m {y n}           | Specifies whether to use the memory mounted on the XSB in mirror mode. Specify this option when sb is specified for <i>device</i> . Specify y to enable mirror mode; otherwise, specify n. If the -m option is omitted, the previous setting is inherited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                            |          |                                                                                                                                                                                                                                            |
| -x {1 4}           | Specifies whether to configure PSB as a Uni-XSB or Quad-XSB. Specify this option when sb is specified for <i>device</i> . Specify 1 for Uni-XSB or specify 4 for Quad-XSB. If the -x option is omitted, the previous setting is inherited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                            |          |                                                                                                                                                                                                                                            |

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|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------|-----------|-----------------------------|-----------------|---------------------------------------|-----------|-------------------------------------------------------|
| OPERANDS             | <p>The following operands are supported:</p> <table><tr><td><i>device</i></td><td>Specifies the device to be set up. Only the following device can be specified:</td></tr><tr><td><i>sb</i></td><td>Physical system board (PSB)</td></tr><tr><td><i>location</i></td><td>Specifies the location of the device.</td></tr><tr><td><i>sb</i></td><td>Integer from 0–15. Specify only one <i>location</i>.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <i>device</i> | Specifies the device to be set up. Only the following device can be specified: | <i>sb</i> | Physical system board (PSB) | <i>location</i> | Specifies the location of the device. | <i>sb</i> | Integer from 0–15. Specify only one <i>location</i> . |
| <i>device</i>        | Specifies the device to be set up. Only the following device can be specified:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| <i>sb</i>            | Physical system board (PSB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| <i>location</i>      | Specifies the location of the device.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| <i>sb</i>            | Integer from 0–15. Specify only one <i>location</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"><li>■ In the M8000/M9000 server, the Quad-XSB configuration cannot be set in memory mirror mode.</li><li>■ To set up an already mounted PSB again, all XSBs comprising the target PSB must have been disconnected from the domain configuration and placed under the system board pool. See the <code>deleteboard(8)</code> command for information on how to disconnect XSBs from the domain configuration.</li><li>■ The configuration of the PSB varies according to the system as shown below.<ul style="list-style-type: none"><li>■ In the M8000/M9000 servers, the PSB consists of one CPU/memory board unit and one I/O unit in combination.</li><li>■ In the M4000/M5000 servers, the PSB consists of one CPU module and one memory module logically divided into two on the motherboard unit, and one I/O module.</li></ul></li><li>■ Although a CMU with two CPUs can be configured into Quad-XSB mode on an M8000/M9000 server, the server generates a "configuration error" message for those XSBs that do not have a CPU and memory.</li><li>■ The current PSB settings can be checked by using the <code>showfru(8)</code> command.</li></ul> |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| EXAMPLES             | <p><b>EXAMPLE 1</b> Configures PSB#00 as a Quad-XSB (with memory in non-mirror mode because the memory mirror mode setting is omitted).</p> <pre>XSCF&gt; setupfru -x 4 sb 0</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| EXIT STATUS          | <p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>&gt;0</td><td>An error occurred.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0             | Successful completion.                                                         | >0        | An error occurred.          |                 |                                       |           |                                                       |
| 0                    | Successful completion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| >0                   | An error occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| SEE ALSO             | <code>addboard(8)</code> , <code>deleteboard(8)</code> , <code>moveboard(8)</code> , <code>setdcl(8)</code> , <code>showboards(8)</code> , <code>showdcl(8)</code> , <code>showdevices(8)</code> , <code>showfru(8)</code>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                                                                                |           |                             |                 |                                       |           |                                                       |



|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------|
| NAME                 | setupplatform - set up platform specific settings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| SYNOPSIS             | <b>setupplatform</b> [-v]<br><b>setupplatform</b> [-v] -p <i>part</i> [-p <i>part</i> ]<br><b>setupplatform</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| DESCRIPTION          | <p>The setupplatform(8) command sets up platform specific settings. The command leads an administrator through Service Processor installation tasks.</p> <p>By default, setupplatform command walks through each of the available settings. Individual settings may be selected using the -p option.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| Privileges           | <p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none"><li>■ To use the -p user option: usradm</li><li>■ To use the -p network, -p altitude, -p timezone options: platadm</li></ul> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| OPTIONS              | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-p <i>part</i></td><td>Specifies the setting you want to do. One of the following can be specified for part:<table><tr><td>altitude</td><td>Configures the chassis altitude.</td></tr><tr><td>network</td><td>Configures the XSCF network, DSCP, DNS, NTP, SSH, https, and SMTP.</td></tr><tr><td>timezone</td><td>Sets the time zone for the XSCF. The time zone is chosen from a list of time zones.</td></tr><tr><td>user</td><td>Creates a new local XSCF user account with platadm, platop, and useradm privileges. Note that an XSCF user account user name cannot match an LDAP user name, and an XSCF user account (UID) number cannot match an LDAP UID number.</td></tr></table></td></tr><tr><td>-v</td><td>Specifies verbose output.</td></tr></table> | -h       | Displays usage statement. When used with other options or operands, an error occurs. | -p <i>part</i> | Specifies the setting you want to do. One of the following can be specified for part: <table><tr><td>altitude</td><td>Configures the chassis altitude.</td></tr><tr><td>network</td><td>Configures the XSCF network, DSCP, DNS, NTP, SSH, https, and SMTP.</td></tr><tr><td>timezone</td><td>Sets the time zone for the XSCF. The time zone is chosen from a list of time zones.</td></tr><tr><td>user</td><td>Creates a new local XSCF user account with platadm, platop, and useradm privileges. Note that an XSCF user account user name cannot match an LDAP user name, and an XSCF user account (UID) number cannot match an LDAP UID number.</td></tr></table> | altitude | Configures the chassis altitude.                                                    | network | Configures the XSCF network, DSCP, DNS, NTP, SSH, https, and SMTP.                                                                                                                                                                  | timezone | Sets the time zone for the XSCF. The time zone is chosen from a list of time zones. | user | Creates a new local XSCF user account with platadm, platop, and useradm privileges. Note that an XSCF user account user name cannot match an LDAP user name, and an XSCF user account (UID) number cannot match an LDAP UID number. | -v | Specifies verbose output. |
| -h                   | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| -p <i>part</i>       | Specifies the setting you want to do. One of the following can be specified for part: <table><tr><td>altitude</td><td>Configures the chassis altitude.</td></tr><tr><td>network</td><td>Configures the XSCF network, DSCP, DNS, NTP, SSH, https, and SMTP.</td></tr><tr><td>timezone</td><td>Sets the time zone for the XSCF. The time zone is chosen from a list of time zones.</td></tr><tr><td>user</td><td>Creates a new local XSCF user account with platadm, platop, and useradm privileges. Note that an XSCF user account user name cannot match an LDAP user name, and an XSCF user account (UID) number cannot match an LDAP UID number.</td></tr></table>                                                                                                                                                                                                                                                                           | altitude | Configures the chassis altitude.                                                     | network        | Configures the XSCF network, DSCP, DNS, NTP, SSH, https, and SMTP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | timezone | Sets the time zone for the XSCF. The time zone is chosen from a list of time zones. | user    | Creates a new local XSCF user account with platadm, platop, and useradm privileges. Note that an XSCF user account user name cannot match an LDAP user name, and an XSCF user account (UID) number cannot match an LDAP UID number. |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| altitude             | Configures the chassis altitude.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| network              | Configures the XSCF network, DSCP, DNS, NTP, SSH, https, and SMTP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| timezone             | Sets the time zone for the XSCF. The time zone is chosen from a list of time zones.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| user                 | Creates a new local XSCF user account with platadm, platop, and useradm privileges. Note that an XSCF user account user name cannot match an LDAP user name, and an XSCF user account (UID) number cannot match an LDAP UID number.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| -v                   | Specifies verbose output.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |
| EXTENDED DESCRIPTION | <p>The available interfaces on the M3000/M4000/M5000 servers are xscf#0-lan#0, xscf#0-lan#1, lan#0, lan#1. The available interfaces on the M8000/M9000 servers are the same but they also include the xscf#0-if, xscf#1-lan#0, xscf#1-lan#1, and xscf#1-if.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                     |         |                                                                                                                                                                                                                                     |          |                                                                                     |      |                                                                                                                                                                                                                                     |    |                           |

In user setup, a new local user account can be created with a user supplied password.

In network setup, the following items can be optionally configured:

- XSCF Network Settings
- Internal DSCP Network
- DNS
- NTP
- SSH
- HTTPS Server
- Email reports

## EXAMPLES

### EXAMPLE 1 Creating a New User.

```
XSCF> setupplatform -p user
Do you want to set up an account? [y|n]: y
Username: myadminuser
User id in range 100 to 65533 or leave blank to let the system
choose one:
 Username: myadminuser
 User id:
Are these settings correct? [y|n]: y
XSCF> adduser myadminuser
XSCF> setprivileges myadminuser useradm platadm platop
XSCF> password myadminuser
New XSCF password: [not echoed]
Retype new XSCF password: [not echoed]
```

### EXAMPLE 2 Configuring the XSCF Network.

```
XSCF> setupplatform
Do you want to set up an account? [y|n]: n
Do you want to set up the XSCF network interfaces? [y|n]: y
Do you want to configure xscf#0-lan#0? [y|n]: y
xscf#0-lan#0 ip address? []: 192.168.1.4
xscf#0-lan#0 netmask? [255.255.255.0]: 255.255.254.0
xscf#0-lan#0 default gateway? []: 192.168.1.1
 xscf#0-lan#0 ip address: 192.168.1.4
 xscf#0-lan#0 netmask: 255.255.254.0
 xscf#0-lan#0 default gateway: 192.168.1.1
Are these settings correct? [y|n]: y
XSCF> setnetwork xscf#0-lan#0 -m 255.255.254.0 192.168.1.4
. . .
```

### EXAMPLE 3 Enabling ssh.

```
XSCF> setupplatform -p network
Do you want to set up the XSCF network interfaces? [y|n]: n
Do you want to set up the DSCP network? [y|n]: n
Do you want to set up the domain name service? [y|n]: n
Do you want to set up the network time protocol? [y|n]: n
Do you want to set up ssh? [y|n]: y
Enable ssh service? [y|n]: y
XSCF> setssh -q -y -c enable
Do you want to set up https? [y|n]: n
. . .
```

### EXAMPLE 4 Configuring the Altitude.

```
XSCF> setupplatform -p altitude
Do you want to set up the chassis altitude? [y|n]: y
Chassis altitude is already configured:
 Chassis altitude in meters: 200
Continue setting up the chassis altitude? [y|n]: y
Chassis altitude in meters: 400
 Chassis altitude in meters: 400
Is this setting correct? [y|n]: y
XSCF> setaltitude -s altitude=400
400m
```

The specified altitude becomes valid when the circuit breakers of the system

are switched on again.

```
Do you want to reboot the XSCF now? [y|n]: n
```

```
XSCF>
```

### EXAMPLE 5 Setting the Time Zone.

```
XSCF> setupplatform -p timezone
Do you want to set up the XSCF time zone? [y|n]: y
Chassis time zone is already configured:
 XSCF time zone: US/Pacific
Continue setting up the XSCF time zone? [y|n]: y
0 Africa/Abidjan
1 Africa/Accra
2 Africa/Addis_Ababa
3 Africa/Algiers
4 Africa/Asmera
5 Africa/Bamako
6 Africa/Bangui
7 Africa/Banjul
```

```

8 Africa/Bissau
9 Africa/Blantyre
10 Africa/Brazzaville
11 Africa/Bujumbura
12 Africa/Cairo
13 Africa/Casablanca
14 Africa/Ceuta
15 Africa/Conakry
16 Africa/Dakar
17 Africa/Dar_es_Salaam
18 Africa/Djibouti
19 Africa/Douala
20 Africa/El_Aaiun
21 Africa/Freetown
22 Africa/Gaborone
Enter number to choose time zone or return for next set of time zones: 21
 XSCF time zone: Africa/Freetown
Is this setting correct? [y|n]: y
XSCF> settimezone -c settz -s Africa/Freetown
Africa/Freetown
XSCF>

```

## EXIT STATUS

The following exit values are returned:

```

0 Successful completion.
>0 An error occurred.

```

## SEE ALSO

**adduser(8)**, **applynetwork(8)**, **password(8)**, **setaltitude(8)**, **setdscp(8)**, **setemailreport(8)**, **sethostname(8)**, **sethttps(8)**, **setnameserver(8)**, **setnetwork(8)**, **setntp(8)**, **setprivileges(8)**, **setsmtp(8)**, **setssh(8)**, **setroute(8)**, **settimezone(8)**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                                                                                                                                                                                                               |    |                                                                                      |             |                                                                                                                                                                                                                                                                                                                                |    |                                                                                            |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------|
| NAME        | showad - show Active Directory configuration and messages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                                                                                                                                                                                                               |    |                                                                                      |             |                                                                                                                                                                                                                                                                                                                                |    |                                                                                            |
| SYNOPSIS    | <p><b>showad</b></p> <p><b>showad</b> cert [-v] [-i <i>n</i>]</p> <p><b>showad</b> log [-M] [-C] [-S <i>start_record_number</i>] [-E <i>end_record_number</i>]</p> <p><b>showad</b> log -f</p> <p><b>showad</b> group administrator [-i <i>n</i>]</p> <p><b>showad</b> group operator [-i <i>n</i>]</p> <p><b>showad</b> group custom [-i <i>n</i>]</p> <p><b>showad</b> userdomain [-i <i>n</i>]</p> <p><b>showad</b> dnslocatorquery [-i <i>n</i>]</p> <p><b>showad</b> defaultrole</p> <p><b>showad</b> server [-i <i>n</i>]</p> <p><b>showad</b> -h</p>                                                                                                                                                                                                                                                                                                                                                       |    |                                                                                                                                                                                                               |    |                                                                                      |             |                                                                                                                                                                                                                                                                                                                                |    |                                                                                            |
| DESCRIPTION | showad(8) displays Active Directory configuration and diagnostic messages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                                                                                                                                                                                                               |    |                                                                                      |             |                                                                                                                                                                                                                                                                                                                                |    |                                                                                            |
| Privileges  | <p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                                                                                                                                               |    |                                                                                      |             |                                                                                                                                                                                                                                                                                                                                |    |                                                                                            |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-f</td><td>Displays diagnostic messages in real time. When this option is used, the command does not terminate. Each diagnostic message is displayed when it is registered. To stop the real-time display, press Ctrl-C.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-i <i>n</i></td><td>Sets an index marker, value 1 - 5. When executed without -i, or with -i and no value, showad walks sequentially through items 1 through 5. Exceptions: When used without -i, the command showad cert displays the certificate information for the Primary server, and showad server displays the Primary server configuration.</td></tr><tr><td>-v</td><td>Specifies verbose output. Used only with the cert operand to display the full certificate.</td></tr></table> | -f | Displays diagnostic messages in real time. When this option is used, the command does not terminate. Each diagnostic message is displayed when it is registered. To stop the real-time display, press Ctrl-C. | -h | Displays usage statement. When used with other options or operands, an error occurs. | -i <i>n</i> | Sets an index marker, value 1 - 5. When executed without -i, or with -i and no value, showad walks sequentially through items 1 through 5. Exceptions: When used without -i, the command showad cert displays the certificate information for the Primary server, and showad server displays the Primary server configuration. | -v | Specifies verbose output. Used only with the cert operand to display the full certificate. |
| -f          | Displays diagnostic messages in real time. When this option is used, the command does not terminate. Each diagnostic message is displayed when it is registered. To stop the real-time display, press Ctrl-C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                               |    |                                                                                      |             |                                                                                                                                                                                                                                                                                                                                |    |                                                                                            |
| -h          | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                                                                                                                                                                                               |    |                                                                                      |             |                                                                                                                                                                                                                                                                                                                                |    |                                                                                            |
| -i <i>n</i> | Sets an index marker, value 1 - 5. When executed without -i, or with -i and no value, showad walks sequentially through items 1 through 5. Exceptions: When used without -i, the command showad cert displays the certificate information for the Primary server, and showad server displays the Primary server configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                                                                                                                                                                                                               |    |                                                                                      |             |                                                                                                                                                                                                                                                                                                                                |    |                                                                                            |
| -v          | Specifies verbose output. Used only with the cert operand to display the full certificate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                                                                                                                                                                                                               |    |                                                                                      |             |                                                                                                                                                                                                                                                                                                                                |    |                                                                                            |

- C Appends to end of output the number of records in the log.
- E Specifies the last record number to display, where *end\_record\_number* can be any record number in the log. Use -C to obtain the number of records in the log.
- M Displays text by page, like the `more(1)` command does.
- S Specifies the first record to display, where *start\_record\_number* can be any record number in the log. Use -C to obtain the number of records in the log.

**OPERANDS**

The following operands are supported:

|                     |                                                   |
|---------------------|---------------------------------------------------|
| cert                | Display current server certificates.              |
| log                 | Display diagnostic messages.                      |
| group administrator | Display current group configurations.             |
| group operator      | Display current group configurations.             |
| group custom        | Display current group configurations.             |
| userdomain          | Display current userdomain settings.              |
| dnslocatorquery     | Display current DNS locator query configuration.  |
| defaultrole         | Display current defaultrole setting.              |
| server              | Display current Active Directory server settings. |

**EXAMPLES**

**EXAMPLE 1** Displays the current state of the active directory.

```
XSCF> showad
dnslocatormode: disabled
expsearchmode: disabled
state: enabled
strictcertmode: disabled
timeout: 4
logdetail: none
```

**EXAMPLE 2** Displays certificate information for the Primary server.

```
XSCF> showad cert
Primary Server:
certstatus = certificate present
issuer = C=US, ST=California, L=San Diego, O=aCompany,
OU=System Group, CN=John User serial number = 0 (00000000)
subject = C=US, ST=California, L=San Diego, O=aCompany,
OU=System Group, CN=John User serial number = 0 (00000000)
```

```
valid from = Apr 18 05:38:36 2009 GMT
valid until = Apr 16 05:38:36 2019 GMT
version = 3 (0x02)
```

**EXAMPLE 3** Displays specified diagnostic messages.

```
XSCF> showad log -S 5 -E 10
Thu Sep 2 01:43 2009 (ActDir): -error- authentication status: auth-ERROR
Thu Sep 2 01:44 2009 (ActDir): -error- authentication status: auth-ERROR
Thu Sep 2 01:47 2009 (ActDir): -error- authentication status: auth-ERROR
Thu Sep 2 01:51 2009 (ActDir): -error- authentication status: auth-ERROR
Thu Sep 2 01:52 2009 (ActDir): -error- authentication status: auth-ERROR
Thu Sep 2 01:55 2009 (ActDir): -error- authentication status: auth-ERROR
```

**EXAMPLE 4** Displays configuration for administrator group 3.

```
XSCF> showad group administrator -i 3
Administrator Group 3
name: CN=pSuperAdmin,OU=Groups,DC=sales,DC=company,DC=com
```

**EXAMPLE 5** Displays alternate server 1 setting. A port number of 0 indicates that the default port for Active Directory is used.

```
XSCF> showad server -i 1
Alternate Server 1
address: (none)
port: 0
```

**EXAMPLE 6** Displays the dnslocatorquery 1 configuration.

```
XSCF> showad dnslocatorquery -i 1
service 1: \ _ldap._tcp.gc._msdcs.<DOMAIN>.<PORT:3269>
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

## SEE ALSO

**setad**(8)

showad(8)





|                      |                                                                                                                                                                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showaltitude - display the altitude of the system and whether the air filter installed                                                                                                                                                                                                       |
| SYNOPSIS             | <b>showaltitude</b><br><b>showaltitude</b> -h                                                                                                                                                                                                                                                |
| DESCRIPTION          | <p>The showaltitude(8) command displays the current settings for the altitude of the system and whether the air filter installed.</p> <p>Whether the air filter installed is displayed on the M4000/M5000 servers only.</p> <p>The displayed altitude value is a multiple of 100 meters.</p> |
| Privileges           | <p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                              |
| OPTIONS              | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                           |
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"> <li>■ The air filter is displayed only when it is installed. If the filter is not installed nothing is displayed.</li> <li>■ The setaltitude(8) command sets the altitude of the system and whether or not the air filter installed.</li> </ul>           |
| EXAMPLES             | <p><b>EXAMPLE 1</b>    Displays the altitude of the system.</p> <pre>XSCF&gt; showaltitude 1000m</pre> <p><b>EXAMPLE 2</b>    Displays the altitude of the M4000/M5000 servers with the air filter installed.</p> <pre>XSCF&gt; showaltitude 1000m Filter is installed.</pre>                |
| EXIT STATUS          | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                                                       |
| SEE ALSO             | <b>setaltitude</b> (8)                                                                                                                                                                                                                                                                       |

showaltitude(8)



|                             |                                                                                                                                  |                                                                                                                               |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>                 | showarchiving - display log archiving configuration and status                                                                   |                                                                                                                               |
| <b>SYNOPSIS</b>             | <b>showarchiving</b>                                                                                                             |                                                                                                                               |
|                             | <b>showarchiving</b> [-e] [-v]                                                                                                   |                                                                                                                               |
|                             | <b>showarchiving</b> -h                                                                                                          |                                                                                                                               |
| <b>DESCRIPTION</b>          | showarchiving(8) displays the status and configuration information for log archiving on the Service Processor.                   |                                                                                                                               |
| <b>Privileges</b>           | You must have platadm, platop or fieldeng privileges to run this command.<br><br>Refer to setprivileges(8) for more information. |                                                                                                                               |
| <b>OPTIONS</b>              | The following options are supported:                                                                                             |                                                                                                                               |
|                             | -e                                                                                                                               | Displays information about the last ten archiving errors.                                                                     |
|                             | -h                                                                                                                               | Displays usage statement.                                                                                                     |
|                             |                                                                                                                                  | When used with other options or operands, an error occurs.                                                                    |
|                             | -v                                                                                                                               | Specifies verbose output.                                                                                                     |
| <b>EXTENDED DESCRIPTION</b> | If the -e option is not specified, showarchiving displays the following information:                                             |                                                                                                                               |
|                             | 1. A list of archiving configuration data:                                                                                       |                                                                                                                               |
|                             | Archiving state                                                                                                                  | Log archiving is enabled or disabled.                                                                                         |
|                             | Archive host                                                                                                                     | The host on which the logs are archived.<br>Initial value is Not configured. Possible values are a host name or IPv4 address. |
|                             | Archive directory                                                                                                                | The directory on the archive host where the archives are stored. Initial value is Not configured.                             |

|                          |                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Username for ssh login   | User name which the Service Processor uses to login to the archive host. Initial value is Not configured.                                                  |
| Archive host public key  | The public key which the Service Processor uses to verify the identity of the archive host. This field is not displayed unless the -v option is specified. |
| Archive host fingerprint | The md5 fingerprint of the public key which the Service Processor uses to verify the identity of the archive host.                                         |

2. Time of the most recent attempt to connect to the archive host, and the outcome of that attempt (success or failure):

|                      |                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------|
| Latest communication | The completion time of the latest attempt to communicate with the archive host.                             |
| Connection status    | The outcome of the latest attempt to connect to the archive host; successful (OK) or unsuccessful (FAILED). |

3. Table of the status information for audit logs and non-audit logs:

|                          |                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------|
| Archive space limit      | The amount of space allocated for the archives.                                              |
| Archive space used       | The amount of space currently consumed by the archives.                                      |
| Total archiving failures | A counter of failed archiving operations.                                                    |
| Unresolved failures      | A counter of failed archiving operations which the Service Processor will continue to retry. |

If the -e option is specified showarchiving displays the details of the last ten archiving errors that occurred.

EXAMPLES

EXAMPLE 1 Viewing Status and Configuration Data

```
XSCF> showarchiving
*** Archiving Configuration ***
Archiving state ----- Disabled
Archive host ----- Not configured
Archive directory ----- Not configured
User name for ssh login -- Not configured
Archive host fingerprint - Server authentication disabled
```

```
*** Connection to Archive Host ***
Latest communication ----- None
Connection status ----- None
```

|                          | AUDIT LOGS    | OTHER LOGS    |
|--------------------------|---------------|---------------|
|                          | -----         | -----         |
| Archive space limit      | Unlimited     | 2000 MB       |
| Archive space used       | Not monitored | Not monitored |
| Total archiving failures | 0             | 0             |
| Unresolved failures      | 0             | 0             |

**EXAMPLE 2**    Displaying Archiving Error Information

```
XSCF> showarchiving -e
No archiving errors have occurred.
```

**EXIT STATUS**    The following exit values are returned:

- 0                Successful completion.
- >0              An error occurred.

**SEE ALSO**       **setarchiving**(8)



|             |                                                                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showaudit - display the current auditing system state                                                                                                                    |
| SYNOPSIS    | <b>showaudit</b><br><b>showaudit</b> all<br><b>showaudit</b> [-a <i>users</i> ] [-c <i>classes</i> ] [-e <i>events</i> ] [-g] [-m] [-p] [-s] [-t]<br><b>showaudit</b> -h |
| DESCRIPTION | showaudit(8) displays the current state of system auditing. When invoked without options showaudit displays whether the writing of audit records is enabled or disabled. |
| Privileges  | You must have auditadm or auditop privileges to run this command.<br>Refer to setprivileges(8) for more information.                                                     |

**OPTIONS**

The following options are supported:

- a *users*      Displays the audit record generation policy for the specified users. *users* is a comma-separated list of valid user names.
- c *classes*      Displays the audit record generation policy for the specified audit classes. *classes* is a comma-separated list of audit classes. A class may be specified by its numeric value or its name. The ACS\_ prefix may be omitted. For example, the class of audit related events can be expressed as ACS\_AUDIT, AUDIT or 16.  
  
The following are valid classes:
 

|                   |                                    |
|-------------------|------------------------------------|
| all               | Denotes all classes.               |
| ACS_SYSTEM(1)     | System-related events              |
| ACS_WRITE(2)      | Commands that can modify a state   |
| ACS_READ(4)       | Commands that read a current state |
| ACS_LOGIN(8)      | Login-related events               |
| ACS_AUDIT(16)     | Audit-related events               |
| ACS_DOMAIN(32)    | Domain management-related events   |
| ACS_USER(64)      | User management-related events     |
| ACS_PLATFORM(128) | Platform management-related events |
| ACS_MODES(256)    | Mode-related events                |
- e *events*      Displays the audit record generation policy for the specified audit events. *events* is a comma-separated list of audit events. An event may be specified by its numeric value or its name. The AEV\_ prefix may be omitted. For example, the event for SSH login can be expressed as AEV\_LOGIN\_SSH, LOGIN\_SSH, or 0.  
  
See `showaudit -e all` for a list of all valid events.
- g      Displays the global user audit record generation policy.
- h      Displays usage statement.  
  
When used with other options or operands, an error occurs.
- m      Displays the address to which email is sent when the local audit storage space usages reaches a threshold.



- p Displays the policy to follow when the audit trail reaches full capacity.
- s Displays the following auditing states:
  - Space consumed by local audit records
  - Free space remaining for local audit records
  - Number of audit records dropped (since the last boot) since the audit trail reached full capacity.
- t Displays the thresholds at which to issue warning(s) about local storage usage.

## OPERANDS

The following operands are supported:

- all Displays the following information:
  - Whether the writing of audit trails is set to enable or disable. This is the same display that is shown for showaudit when invoked without any options.
  - All the information that would be displayed by invoking showaudit with the options: -a, -c all, -e all, -g, -m, -p, -s, -t.

## EXAMPLES

### EXAMPLE 1 Displaying Auditing Status

```
XSCF> showaudit
Auditing: enabled
```

### EXAMPLE 2 Displaying All Class Information For Login Auditing

```
XSCF> showaudit -c LOGIN
Events:
AEV_LOGIN_BUI enabled
AEV_LOGIN_CONSOLE enabled
AEV_LOGIN_SSH enabled
AEV_LOGIN_TELNET enabled
AEV_LOGOUT enabled
AEV_AUTHENTICATE enabled
```

### EXAMPLE 3 Displaying All Event Information

```
XSCF> showaudit -e all
Events:
AEV_AUDIT_START enabled
AEV_AUDIT_STOP enabled
AEV_ENTER_MODE enabled
AEV_EXIT_MODE enabled
AEV_LOGIN_BUI enabled
AEV_LOGIN_CONSOLE enabled
```

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|                  |         |
|------------------|---------|
| AEV_LOGIN_SSH    | enabled |
| AEV_LOGIN_TELNET | enabled |
| AEV_LOGOUT       | enabled |
| AEV_AUTHENTICATE | enabled |
| AEV_addboard     | enabled |
| AEV_addfru       | enabled |
| [...]            |         |

**EXIT STATUS**      The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**      **setaudit(8), viewaudit(8)**

|             |                                                                                                                                                                                                                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showautologout - display the session timeout time of the XSCF shell                                                                                                                                                                                                                       |
| SYNOPSIS    | <b>showautologout</b><br><b>showautologout</b> -h                                                                                                                                                                                                                                         |
| DESCRIPTION | <p>The showautologout(8) command displays the session timeout time of the XSCF shell.</p> <p>The session timeout time is displayed in units of minutes. If the session timeout time has not been specified with the setautologout(8) command, a time of 10 minutes is set by default.</p> |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                             |
| OPTIONS     | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                        |
| EXAMPLES    | <p><b>EXAMPLE 1</b>      Displays the session timeout time of the XSCF shell.</p> <pre>XSCF&gt; showautologout 30min</pre> <p><b>EXAMPLE 2</b>      Displays the session timeout time of the XSCF shell (the time is default).</p> <pre>XSCF&gt; showautologout 10min</pre>               |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                                                    |
| SEE ALSO    | <b>setautologout</b> (8)                                                                                                                                                                                                                                                                  |

showautologout(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------|--|------------|--|---------------------------------|--|-------------------------------|-----|-----------------------------------------------|--|---------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------|
| NAME        | showboards - display information on an eXtended System Board (XSB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
| SYNOPSIS    | <p><b>showboards</b> [-v] -a [-c sp]</p> <p><b>showboards</b> [-v] -d <i>domain_id</i> [-c sp]</p> <p><b>showboards</b> [-v] <i>xsb</i></p> <p><b>showboards</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
| DESCRIPTION | <p>The showboards(8) command displays information on XSBs.</p> <p>This command displays information on XSBs currently configured in or assigned to a domain and information on all mounted XSBs. If a domain is specified, the command displays only information defined with the corresponding domain component list (DCL).</p> <p>The following types of information are displayed:</p> <table> <tr> <td>XSB</td><td>XSB number. The format of the displayed number is as follows:</td></tr> <tr> <td></td><td><i>x-y</i></td></tr> <tr> <td></td><td><i>x</i>                      An integer from 00–15.</td></tr> <tr> <td></td><td><i>y</i>                      An integer from 0–3.</td></tr> <tr> <td>DID</td><td>Domain ID. One of the following is displayed:</td></tr> <tr> <td></td><td>00–23                  Domain ID to which the XSB is assigned</td></tr> <tr> <td></td><td>SP                      This is displayed if the XSB does not belong to any domain but is located in the system board pool.</td></tr> <tr> <td></td><td>Other                  This is displayed if the XSB belongs to a domain to which no user privilege has been granted.</td></tr> <tr> <td>LSB</td><td>Logical system board (LSB) number defined for the domain. The displayed number is an integer ranging from 0 to 15.</td></tr> </table> | XSB | XSB number. The format of the displayed number is as follows: |  | <i>x-y</i> |  | <i>x</i> An integer from 00–15. |  | <i>y</i> An integer from 0–3. | DID | Domain ID. One of the following is displayed: |  | 00–23                  Domain ID to which the XSB is assigned |  | SP                      This is displayed if the XSB does not belong to any domain but is located in the system board pool. |  | Other                  This is displayed if the XSB belongs to a domain to which no user privilege has been granted. | LSB | Logical system board (LSB) number defined for the domain. The displayed number is an integer ranging from 0 to 15. |
| XSB         | XSB number. The format of the displayed number is as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
|             | <i>x-y</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
|             | <i>x</i> An integer from 00–15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
|             | <i>y</i> An integer from 0–3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
| DID         | Domain ID. One of the following is displayed:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
|             | 00–23                  Domain ID to which the XSB is assigned                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
|             | SP                      This is displayed if the XSB does not belong to any domain but is located in the system board pool.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
|             | Other                  This is displayed if the XSB belongs to a domain to which no user privilege has been granted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |
| LSB         | Logical system board (LSB) number defined for the domain. The displayed number is an integer ranging from 0 to 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                               |  |            |  |                                 |  |                               |     |                                               |  |                                                               |  |                                                                                                                             |  |                                                                                                                      |     |                                                                                                                    |

|  |             |                                                                                                                                                                                                                             |  |
|--|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | Assignment  | Domain assignment state of the XSB. One of the following is displayed:                                                                                                                                                      |  |
|  | Unavailable | The XSB is in the system board pool (not assigned to a domain) and its status is one of the following: not-yet diagnosed, under diagnosis, or diagnosis error. All XSBs that are not mounted are also shown as Unavailable. |  |
|  | Available   | The XSB is in the system board pool and its diagnosis has completed normally.                                                                                                                                               |  |
|  | Assigned    | The XSB is reserved for or assigned to the domain.                                                                                                                                                                          |  |
|  | Pwr         | Power status of the XSB                                                                                                                                                                                                     |  |
|  | n           | Power is off.                                                                                                                                                                                                               |  |
|  | y           | Power is on.                                                                                                                                                                                                                |  |
|  | Conn        | Status of the XSB connection to the domain configuration                                                                                                                                                                    |  |
|  | n           | The XSB is not connected to the domain, or it is located in the system board pool.                                                                                                                                          |  |
|  | y           | The XSB is connected to the domain.                                                                                                                                                                                         |  |

|            |                                                                        |                                                                                                                                                                                                                             |
|------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assignment | Domain assignment state of the XSB. One of the following is displayed: |                                                                                                                                                                                                                             |
|            | Unavailable                                                            | The XSB is in the system board pool (not assigned to a domain) and its status is one of the following: not-yet diagnosed, under diagnosis, or diagnosis error. All XSBs that are not mounted are also shown as Unavailable. |
|            | Available                                                              | The XSB is in the system board pool and its diagnosis has completed normally.                                                                                                                                               |
|            | Assigned                                                               | The XSB is reserved for or assigned to the domain.                                                                                                                                                                          |
| Pwr        | Power status of the XSB                                                |                                                                                                                                                                                                                             |
|            | n                                                                      | Power is off.                                                                                                                                                                                                               |
|            | y                                                                      | Power is on.                                                                                                                                                                                                                |
| Conn       | Status of the XSB connection to the domain configuration               |                                                                                                                                                                                                                             |
|            | n                                                                      | The XSB is not connected to the domain, or it is located in the system board pool.                                                                                                                                          |
|            | y                                                                      | The XSB is connected to the domain.                                                                                                                                                                                         |

|                                                                                                                     |                                                                                      |                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conf                                                                                                                | Incorporation state of XSB hardware resources into the Oracle Solaris OS             |                                                                                                                                                                |
|                                                                                                                     | n                                                                                    | The resources are not connected to the Oracle Solaris OS.                                                                                                      |
|                                                                                                                     | y                                                                                    | The resources are incorporated in the Oracle Solaris OS.                                                                                                       |
| Test                                                                                                                | Status of an initial diagnosis on an XSB                                             |                                                                                                                                                                |
|                                                                                                                     | Unmount                                                                              | The XSB cannot be recognized because it is not mounted or because it has an error.                                                                             |
|                                                                                                                     | Unknown                                                                              | Not performed.                                                                                                                                                 |
|                                                                                                                     | Testing                                                                              | The initial diagnosis is in progress.                                                                                                                          |
|                                                                                                                     | Passed                                                                               | The initial diagnosis ended normally.                                                                                                                          |
|                                                                                                                     | Failed                                                                               | Error (test=fail) detected by an initial diagnosis. The XSB cannot be used or is in a degraded state.                                                          |
| Fault                                                                                                               | XSB degradation status                                                               |                                                                                                                                                                |
|                                                                                                                     | Normal                                                                               | Normal                                                                                                                                                         |
|                                                                                                                     | Degraded                                                                             | Component in a degraded state. The XSB can operate.                                                                                                            |
|                                                                                                                     | Faulted                                                                              | An error occurred and the XSB cannot operate.                                                                                                                  |
| When the -v option is specified, the following types of information are displayed as XSB detail status information: |                                                                                      |                                                                                                                                                                |
| R                                                                                                                   | Dynamic reconfiguration(DR) involving the reservation state of the XSB in the domain |                                                                                                                                                                |
|                                                                                                                     | *                                                                                    | DR processing is reserved. When the domain is rebooted, the XSB is incorporated into or disconnected from the domain, and the domain configuration is changed. |
| Cod                                                                                                                 | Whether the XSB is a COD board                                                       |                                                                                                                                                                |
|                                                                                                                     | n                                                                                    | The XSB is not a COD board.                                                                                                                                    |
|                                                                                                                     | y                                                                                    | The XSB is a COD board.                                                                                                                                        |



|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Privileges</b> | <p>You must have one of the following privileges to run this command:</p> <p>platadm, platop, fieldeng</p> <p>Can execute the command for all domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can execute the command only for accessible domains.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>OPTIONS</b>    | <p>The following options are supported:</p> <ul style="list-style-type: none"> <li>-a Displays the state of XSBs configured in or assigned to a domain and the state of all mounted XSBs.</li> <li>-c sp Displays the system boards located in the system board pool. System boards in the system board pool do not belong to any domain.</li> <li>-d <i>domain_id</i> Specifies the ID of the domain whose status of XSB is displayed. Only information that is defined with the DCL of the specified domain is displayed. An integer ranging from 0 to 23 can be specified for <i>domain_id</i>, depending on the system configuration.</li> <li>-h Displays usage statement. When used with other options or operands, an error occurs.</li> <li>-v Displays detailed information on XSB.</li> </ul> |
| <b>OPERANDS</b>   | <p>The following operand is supported:</p> <p><i>xsb</i> Specifies the XSB number to be displayed. The following <i>xsb</i> form is accepted:</p> <p><i>x-y</i></p> <p>where:</p> <ul style="list-style-type: none"> <li><i>x</i> An integer from 00–15.</li> <li><i>y</i> An integer from 0–3.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**EXAMPLES****EXAMPLE 1** Displays information on all mounted system boards.

```
XSCF> showboards -a
```

| XSB  | DID(LSB) | Assignment  | Pwr | Conn | Conf | Test    | Fault  |
|------|----------|-------------|-----|------|------|---------|--------|
| 00-0 | 00(00)   | Assigned    | y   | y    | y    | Passed  | Normal |
| 00-1 | 00(01)   | Assigned    | y   | y    | y    | Passed  | Normal |
| 00-2 | SP       | Available   | y   | n    | n    | Passed  | Normal |
| 00-3 | 02(00)   | Unavailable | y   | n    | n    | Unknown | Normal |

**EXAMPLE 2** Displays detailed information on all mounted system boards.

```
XSCF> showboards -v -a
```

| XSB  | R | DID(LSB) | Assignment  | Pwr | Conn | Conf | Test    | Fault  | COD |
|------|---|----------|-------------|-----|------|------|---------|--------|-----|
| 00-0 |   | 00(00)   | Assigned    | y   | y    | y    | Passed  | Normal | n   |
| 00-1 | * | 00(01)   | Assigned    | y   | y    | y    | Passed  | Normal | n   |
| 00-2 |   | SP       | Available   | y   | n    | n    | Passed  | Normal | n   |
| 00-3 |   | 02(00)   | Unavailable | y   | n    | n    | Unknown | Normal | n   |

**EXAMPLE 3** Displays information on XSB#00-0.

```
XSCF> showboards 00-0
```

| XSB  | DID(LSB) | Assignment | Pwr | Conn | Conf | Test   | Fault  |
|------|----------|------------|-----|------|------|--------|--------|
| 00-0 | 15(00)   | Assigned   | y   | y    | y    | Passed | Normal |

**EXAMPLE 4** Displays detailed information on XSB#00-0.

```
XSCF> showboards -v 00-0
```

| XSB  | R | DID(LSB) | Assignment | Pwr | Conn | Conf | Test   | Fault  | COD |
|------|---|----------|------------|-----|------|------|--------|--------|-----|
| 00-0 | * | 15(00)   | Assigned   | y   | n    | n    | Passed | Normal | y   |

**EXAMPLE 5** Displays system boards located in the system board pool.

```
XSCF> showboards -a -c sp
```

| XSB  | DID(LSB) | Assignment | Pwr | Conn | Conf | Test   | Fault  |
|------|----------|------------|-----|------|------|--------|--------|
| 00-0 | SP       | Available  | y   | n    | n    | Passed | Normal |
| 00-2 | SP       | Available  | y   | n    | n    | Passed | Normal |
| 00-3 | SP       | Available  | y   | n    | n    | Passed | Normal |

**EXAMPLE 6** Displays the system boards that are defined for domain ID 0 and located in the system board pool.

```
XSCF> showboards -d 0 -c sp
XSB DID(LSB) Assignment Pwr Conn Conf Test Fault

00-2 SP Available y n n Passed Normal
```

**EXIT STATUS** The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

**SEE ALSO** `addboard(8)`, `deleteboard(8)`, `moveboard(8)`, `setdcl(8)`, `setupfru(8)`, `showcodusage(8)`, `showdcl(8)`, `showdevices(8)`, `showfru(8)`

showboards(8)



|                     |                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                    |    |                           |  |                                                            |    |                           |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|----|---------------------------|--|------------------------------------------------------------|----|---------------------------|
| NAME                | showcod - display Capacity on Demand (COD) information                                                                                                                                                                                                                                                                                                                                       |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| SYNOPSIS            | <b>showcod</b> -v -d <i>domain_id</i><br><b>showcod</b> -h                                                                                                                                                                                                                                                                                                                                   |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| DESCRIPTION         | <p>showcod(8) displays COD information which includes the headroom amount, number of installed COD hardware activation permits (COD permits), the number of COD permits reserved for domains, and the Chassis Hostid.</p> <p>The showcod(8) command is not supported on the M3000 server.</p> <p>When used without arguments this command displays the current COD information.</p>          |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| Privileges          | <p>You must have one of the following privileges to run this command:</p> <p>platadm, platop</p> <p>Can execute the command for all domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can execute the command only for accessible domains.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                    |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| OPTIONS             | <p>The following options are supported:</p> <table><tr><td>-d <i>domain_id</i></td><td>Domain identifier. <i>domain_id</i> can be 0–23 depending on system configuration.</td></tr><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td>-v</td><td>Specifies verbose output.</td></tr></table> | -d <i>domain_id</i> | Domain identifier. <i>domain_id</i> can be 0–23 depending on system configuration. | -h | Displays usage statement. |  | When used with other options or operands, an error occurs. | -v | Specifies verbose output. |
| -d <i>domain_id</i> | Domain identifier. <i>domain_id</i> can be 0–23 depending on system configuration.                                                                                                                                                                                                                                                                                                           |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| -h                  | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                    |                     |                                                                                    |    |                           |  |                                                            |    |                           |
|                     | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                   |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| -v                  | Specifies verbose output.                                                                                                                                                                                                                                                                                                                                                                    |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| EXAMPLES            | <p><b>EXAMPLE 1</b>    Displaying All COD Information</p> <p>The output shown is what you might see if you had domainadm, domainop, or domainmgr privileges for Domain 1.</p> <pre>XSCF&gt; <b>showcod</b><br/>PROC Permits reserved for domain 1 : 0</pre>                                                                                                                                  |                     |                                                                                    |    |                           |  |                                                            |    |                           |

**EXAMPLE 2**    Displaying All COD Information

The output shown is what you might see if you had platform privileges.

```
XSCF> showcod
Chassis HostID : 81000001
PROC Permits installed : 8
PROC Headroom Quantity : 0
PROC Permits reserved for domain 0 : 4
PROC Permits reserved for domain 1 : 0
PROC Permits reserved for domain 2 : 0
PROC Permits reserved for domain 3 : 0
PROC Permits reserved for domain 4 : 0
PROC Permits reserved for domain 5 : 0
PROC Permits reserved for domain 6 : 0
PROC Permits reserved for domain 7 : 0
PROC Permits reserved for domain 8 : 0
PROC Permits reserved for domain 9 : 0
PROC Permits reserved for domain 10 : 0
PROC Permits reserved for domain 11 : 0
PROC Permits reserved for domain 12 : 0
PROC Permits reserved for domain 13 : 0
PROC Permits reserved for domain 14 : 0
PROC Permits reserved for domain 15 : 0
```

**EXIT STATUS**

The following exit values are returned:

- 0                    Successful completion.
- >0                  An error occurred.

**SEE ALSO**

*SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide*

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|-----|--------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showcodactivation - display the current Capacity on Demand (COD) hardware activation permits (COD permits) stored in the COD database                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| SYNOPSIS             | <b>showcodactivation</b> -r -v<br><b>showcodactivation</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| DESCRIPTION          | <p>showcodactivation(8) displays information stored in the COD database.</p> <p>This command is not available on the M3000 server.</p> <p>When used without options this command displays the current COD hardware activation keys (COD keys).</p> <p><b>Note</b> – For details on COD keys, refer to the <i>SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide</i>.</p>                                                                                                                                                                           |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| Privileges           | <p>You must have platadm or platop privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| OPTIONS              | <p>The following options are supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement.</td></tr> <tr> <td></td><td>When used with other options or operands, an error occurs.</td></tr> <tr> <td>-r</td><td>Displays COD permit information in the raw <i>permit-signature</i> format, as stored in the COD database.</td></tr> <tr> <td>-v</td><td>Specifies verbose output. Displays both the formatted COD permit information and raw <i>permit-signature</i> data.</td></tr> </table>                                                                                   | -h          | Displays usage statement.     |     | When used with other options or operands, an error occurs.   | -r         | Displays COD permit information in the raw <i>permit-signature</i> format, as stored in the COD database. | -v    | Specifies verbose output. Displays both the formatted COD permit information and raw <i>permit-signature</i> data. |        |                                                                                                                             |
| -h                   | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
|                      | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| -r                   | Displays COD permit information in the raw <i>permit-signature</i> format, as stored in the COD database.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| -v                   | Specifies verbose output. Displays both the formatted COD permit information and raw <i>permit-signature</i> data.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| EXTENDED DESCRIPTION | <p>The showcodactivation(8) command displays the following information:</p> <table> <tr> <td>Description</td><td>Type of resource (processor).</td></tr> <tr> <td>Ver</td><td>Version number of the COD permit, which is always set to 01.</td></tr> <tr> <td>Expiration</td><td>Expiration of the COD permit.</td></tr> <tr> <td>Count</td><td>Number of COD permits granted for the given resource.</td></tr> <tr> <td>Status</td><td>GOOD, which indicates that the given resource is valid, or EXPIRED, which indicates that the COD permit is no longer valid.</td></tr> </table> | Description | Type of resource (processor). | Ver | Version number of the COD permit, which is always set to 01. | Expiration | Expiration of the COD permit.                                                                             | Count | Number of COD permits granted for the given resource.                                                              | Status | GOOD, which indicates that the given resource is valid, or EXPIRED, which indicates that the COD permit is no longer valid. |
| Description          | Type of resource (processor).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| Ver                  | Version number of the COD permit, which is always set to 01.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| Expiration           | Expiration of the COD permit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| Count                | Number of COD permits granted for the given resource.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |
| Status               | GOOD, which indicates that the given resource is valid, or EXPIRED, which indicates that the COD permit is no longer valid.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                               |     |                                                              |            |                                                                                                           |       |                                                                                                                    |        |                                                                                                                             |

EXAMPLES

EXAMPLE 1    Displaying Verbose Permit Data

```
XSCF> showcodactivation -v
Description Ver Expiration Count Status

PROC 01 NONE 16 GOOD
01:84000000:000000001:0301010100:16:00000000:xxxxxxxxxxxxxxxxxxxx
```

EXAMPLE 2    Displaying Raw Permit Data

```
XSCF> showcodactivation -r
01:84000000:104:0301010100:3:00000000:xxxxxxxxxxxxxxxx
```

EXIT STATUS

The following exit values are returned:

- 0                Successful completion.
- >0              An error occurred.

SEE ALSO

*SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide*



|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|--------|--|-------------|-------------------------------|------------|-------|--------|-----|------------------------------------------------------------|--|--|--|------------|---------------------------------------------------------------------------------------------------------------------|--|--|--|-------|------------------------------------------------------------------------------------------------------------------|--|--|--|--------|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| NAME                 | showcodlicense - display the current Capacity on Demand (COD) right-to-use (RTU) licenses stored in the COD license database                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| SYNOPSIS             | <b>showcodlicense</b> -r -v<br><b>showcodlicense</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| DESCRIPTION          | <p>showcodlicense(8) displays COD license information stored in the COD license database.</p> <p>The showcodlicense(8) command is not available on the M3000 server.</p> <p>When used without options it displays the current licenses.</p>                                                                                                                                                                                                                                                                                                                                                                                                     |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| Privileges           | <p>You must have platadm or platop privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| OPTIONS              | <p>The following options are supported:</p> <table><tr><td>-h</td><td colspan="4">Displays usage statement.</td></tr><tr><td></td><td colspan="4">When used with other options or operands, an error occurs.</td></tr><tr><td>-r</td><td colspan="4">Displays the license information in the raw <i>license-signature</i> format, as stored in the COD license database.</td></tr><tr><td>-v</td><td colspan="4">Specifies verbose output. Displays both the formatted license information and raw <i>license-signature</i> data.</td></tr></table>                                                                                             |            |       |        |  | -h          | Displays usage statement.     |            |       |        |     | When used with other options or operands, an error occurs. |  |  |  | -r         | Displays the license information in the raw <i>license-signature</i> format, as stored in the COD license database. |  |  |  | -v    | Specifies verbose output. Displays both the formatted license information and raw <i>license-signature</i> data. |  |  |  |        |                                                                                                                                   |  |  |  |
| -h                   | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
|                      | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| -r                   | Displays the license information in the raw <i>license-signature</i> format, as stored in the COD license database.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| -v                   | Specifies verbose output. Displays both the formatted license information and raw <i>license-signature</i> data.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| EXTENDED DESCRIPTION | <p>The showcodlicense command displays the following COD information:</p> <table><tr><td>Description</td><td colspan="4">Type of resource (processor).</td></tr><tr><td>Ver</td><td colspan="4">Version number of the license, which is always set to 01.</td></tr><tr><td>Expiration</td><td colspan="4">Expiration of the license.</td></tr><tr><td>Count</td><td colspan="4">Number of right-to-use licenses granted for the given resource.</td></tr><tr><td>Status</td><td colspan="4">GOOD, which indicates that the given resource is valid, or EXPIRED, which indicates that the resource license is no longer valid.</td></tr></table> |            |       |        |  | Description | Type of resource (processor). |            |       |        | Ver | Version number of the license, which is always set to 01.  |  |  |  | Expiration | Expiration of the license.                                                                                          |  |  |  | Count | Number of right-to-use licenses granted for the given resource.                                                  |  |  |  | Status | GOOD, which indicates that the given resource is valid, or EXPIRED, which indicates that the resource license is no longer valid. |  |  |  |
| Description          | Type of resource (processor).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| Ver                  | Version number of the license, which is always set to 01.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| Expiration           | Expiration of the license.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| Count                | Number of right-to-use licenses granted for the given resource.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| Status               | GOOD, which indicates that the given resource is valid, or EXPIRED, which indicates that the resource license is no longer valid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |       |        |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| EXAMPLES             | <p><b>EXAMPLE 1</b>    Displaying Verbose License Data</p> <pre>XSCF&gt; <b>showcodlicense -v</b></pre> <table><tr><td>Description</td><td>Ver</td><td>Expiration</td><td>Count</td><td>Status</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                |            |       |        |  | Description | Ver                           | Expiration | Count | Status |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |
| Description          | Ver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Expiration | Count | Status |  |             |                               |            |       |        |     |                                                            |  |  |  |            |                                                                                                                     |  |  |  |       |                                                                                                                  |  |  |  |        |                                                                                                                                   |  |  |  |

```

PROC 01 NONE 16 GOOD
01:84000000:000000001:0301010100:16:00000000:xxxxxxxxxxxxxxxxxxxx
```

**EXAMPLE 2**    Displaying Raw License Data

```
XSCF> showcodlicense -r
01:84000000:104:0301010100:3:00000000:xxxxxxxxxxxxxxxx
```

**EXIT STATUS**    The following exit values are returned:

- 0                Successful completion.
- >0              An error occurred.

**SEE ALSO**       *SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide*

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showcodusage - display the current usage statistics for Capacity on Demand (COD) resources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>SYNOPSIS</b>    | <b>showcodusage</b> [-v] [-M] [-p resource   domain   all]<br><b>showcodusage</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>DESCRIPTION</b> | <p>showcodusage(8) shows current information about COD hardware activation permits (COD permits) in use.</p> <p>The showcodusage(8) command is not available on the M3000 server.</p> <p>By default, this command displays a summary of COD permits used and installed, along with the current state of each resource. When used without options, it displays the current usage.</p>                                                                                                                                                                                                                                                                                     |
| <b>Privileges</b>  | <p>You must have one of the following privileges to run this command:</p> <p>platadm, platop, fieldeng</p> <p>Can run this command for all resources and domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can run this command for available resources only for those domains that you can access.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                       |
| <b>OPTIONS</b>     | <p>The following options are supported:</p> <p>-h Displays usage statement.</p> <p>When used with other options or operands, an error occurs.</p> <p>-M Displays text by page.</p> <p>-p domain Displays COD permit usage for each domain. The statistics reported include the number of COD permits used by the domain, resources assigned to the domain, and COD permits reserved for the domain.</p> <p>-p resource Displays COD permit usage by resource type.</p> <p>-p all Displays all COD usage information.</p> <p>-v Specifies verbose output. Displays all available COD usage information, including COD permit use for both the system and its domains.</p> |

**EXTENDED  
DESCRIPTION**

The `showcodusage -p resource` command displays the following COD usage information for the system:

|               |                                                                |                                                                                                                                                                                                                                                                                                                       |
|---------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resource      | Identifies the type of COD resources available (processors).   |                                                                                                                                                                                                                                                                                                                       |
| In Use        | Specifies the number of COD CPUs currently used in the system. |                                                                                                                                                                                                                                                                                                                       |
| Installed     | Specifies the number of COD CPUs installed in the system.      |                                                                                                                                                                                                                                                                                                                       |
| COD Permitted | Specifies the number of COD permits installed.                 |                                                                                                                                                                                                                                                                                                                       |
| Status        | Specifies one of the following COD attributes:                 |                                                                                                                                                                                                                                                                                                                       |
|               | OK                                                             | Indicates that there are sufficient permits for the COD CPUs in use, and displays the number of COD CPUs that are available, and the number that can be used to provide headroom.                                                                                                                                     |
|               | HEADROOM                                                       | The number of COD CPUs in use providing headroom.                                                                                                                                                                                                                                                                     |
|               | Violation                                                      | Indicates a COD permit violation exists. Displays the number of COD CPUs in use that exceeds the number of COD permits available. This situation can occur when you force the deletion of a COD hardware activation key (COD key) from the COD database, but the COD CPU associated with the COD key is still in use. |

The `showcodusage -p domain` command displays the following COD usage information for each domain:

|                 |                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Domain/Resource | Identifies COD resources (processors) for each domain. An Unused processor is a COD CPU that has not yet been assigned to a domain. |
| In Use          | Specifies the number of COD CPUs currently used in the domain.                                                                      |

|           |                                                                                         |
|-----------|-----------------------------------------------------------------------------------------|
| Installed | Specifies the number of COD CPU resources installed in the domain.                      |
| Reserved  | Specifies the number of COD permits allocated to the domain.                            |
| Status    | Contains one of the following when the -v option is specified:                          |
|           | COD Permitted                                                                           |
|           | The domain's COD CPU has a COD permit and it is in use.                                 |
|           | Not COD Permitted                                                                       |
|           | A COD permit for the domain's COD CPU could not be obtained; the COD CPU is not in use. |
|           | Unused                                                                                  |
|           | The COD CPU is not in use.                                                              |

## EXAMPLES

Users with platform-related privileges can view both resource and domain usage summaries. Users with domain-related privileges can view only the domain usage summaries for which they have privileges, and a report of unused COD permits.

### EXAMPLE 1 Displaying COD Usage by Resource

```
XSCF> showcodusage -p resource
```

| Resource | In Use | Installed | COD Permitted | Status           |
|----------|--------|-----------|---------------|------------------|
| PROC     | 4      | 4         | 16            | OK: 12 available |

### EXAMPLE 2 Displaying COD Usage by Domain

```
XSCF> showcodusage -p domains
```

| Domain/Resource | In Use | Installed | Reserved |
|-----------------|--------|-----------|----------|
| 0 - PROC        | 4      | 4         | 0        |
| 1 - PROC        | 4      | 4         | 0        |
| 2 - PROC        | 4      | 4         | 0        |
| 3 - PROC        | 4      | 4         | 0        |
| 4 - PROC        | 0      | 0         | 0        |
| Unused - PROC   | 0      | 0         | 12       |

### EXAMPLE 3 Displaying COD Usage by Resource and Domain: M8000 Server With CMU00 Quad-XSB, CMU02 Uni-XSB

```
XSCF> showcodusage -v
```

| Resource | In Use | Installed | COD Permitted | Status                      |
|----------|--------|-----------|---------------|-----------------------------|
| PROC     | 0      | 8         | 0             | OK: 0 available Headroom: 2 |

| Domain/Resource | In Use | Installed | Reserved | Status |
|-----------------|--------|-----------|----------|--------|
| -----           | -----  | -----     | -----    | -----  |
| 0 - PROC        | 0      | 8         | 0        |        |
| 00-0 - PROC     | 0      | 1         |          |        |
| CMU00-CPU0      |        |           |          | Unused |
| 00-1 - PROC     | 0      | 1         |          |        |
| CMU00-CPU1      |        |           |          | Unused |
| 00-2 - PROC     | 0      | 1         |          |        |
| CMU00-CPU2      |        |           |          | Unused |
| 00-3 - PROC     | 0      | 1         |          |        |
| CMU00-CPU3      |        |           |          | Unused |
| 02-0 - PROC     | 0      | 4         |          |        |
| CMU02-CPU0      |        |           |          | Unused |
| CMU02-CPU1      |        |           |          | Unused |
| CMU02-CPU2      |        |           |          | Unused |
| CMU02-CPU3      |        |           |          | Unused |
| 1 - PROC        | 0      | 0         | 0        |        |
| 2 - PROC        | 0      | 0         | 0        |        |
| 3 - PROC        | 0      | 0         | 0        |        |
| 4 - PROC        | 0      | 0         | 0        |        |
| 5 - PROC        | 0      | 0         | 0        |        |
| 6 - PROC        | 0      | 0         | 0        |        |
| 7 - PROC        | 0      | 0         | 0        |        |
| 8 - PROC        | 0      | 0         | 0        |        |
| 9 - PROC        | 0      | 0         | 0        |        |
| 10 - PROC       | 0      | 0         | 0        |        |
| 11 - PROC       | 0      | 0         | 0        |        |
| 12 - PROC       | 0      | 0         | 0        |        |
| 13 - PROC       | 0      | 0         | 0        |        |
| 14 - PROC       | 0      | 0         | 0        |        |
| 15 - PROC       | 0      | 0         | 0        |        |
| Unused - PROC   | 0      | 0         | 2        |        |

**EXAMPLE 4**    Displaying COD Usage by Resource and Domain: M5000 Server

```
XSCF> showcodusage -v
```

| Resource | In Use | Installed | COD Permitted | Status          |
|----------|--------|-----------|---------------|-----------------|
| -----    | -----  | -----     | -----         | -----           |
| PROC     | 0      | 4         | 0             | OK: 0 available |

| Domain/Resource | In Use | Installed | Reserved | Status |
|-----------------|--------|-----------|----------|--------|
| -----           | -----  | -----     | -----    | -----  |
| 0 - PROC        | 0      | 0         | 0        |        |
| 1 - PROC        | 0      | 0         | 0        |        |
| 2 - PROC        | 0      | 0         | 0        |        |
| 3 - PROC        | 0      | 0         | 0        |        |

|               |   |   |        |
|---------------|---|---|--------|
| Unused - PROC | 0 | 4 | 0      |
| 00-0 - PROC   | 0 | 4 |        |
| CPUM00-CPU0   |   |   | Unused |
| CPUM00-CPU1   |   |   | Unused |
| CPUM01-CPU0   |   |   | Unused |
| CPUM01-CPU1   |   |   | Unused |

**EXIT STATUS**      The following exit values are returned:

- 0                      Successful completion.
- >0                    An error occurred.

**SEE ALSO**          *SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide*

showcodusage(8)





|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|--|-------------------------------------------|--|------------------------------------------|--------|---------------------------------------|------|--------------------------------------|
| NAME                | showconsolepath - displays information on the domain console that is currently connected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
| SYNOPSIS            | <p><b>showconsolepath</b> -a</p> <p><b>showconsolepath</b> -d <i>domain_id</i></p> <p><b>showconsolepath</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
| DESCRIPTION         | <p>The showconsolepath(8) command displays information on the domain console that is currently connected.</p> <p>The following information can be displayed:</p> <table> <tr> <td>User</td><td>User account of the XSCF connected to the domain console</td></tr> <tr> <td>DID</td><td>Domain ID</td></tr> <tr> <td>ro/rw</td><td>Domain console type</td></tr> <tr> <td></td><td>ro                      Read-only console</td></tr> <tr> <td></td><td>rw                      Writable console</td></tr> <tr> <td>escape</td><td>Escape mark specified for the console</td></tr> <tr> <td>Date</td><td>Date connected to the domain console</td></tr> </table> | User | User account of the XSCF connected to the domain console          | DID                 | Domain ID                                                                                                                                         | ro/rw | Domain console type                                                                  |  | ro                      Read-only console |  | rw                      Writable console | escape | Escape mark specified for the console | Date | Date connected to the domain console |
| User                | User account of the XSCF connected to the domain console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
| DID                 | Domain ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
| ro/rw               | Domain console type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
|                     | ro                      Read-only console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
|                     | rw                      Writable console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
| escape              | Escape mark specified for the console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
| Date                | Date connected to the domain console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
| Privileges          | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop</p> <p>Can run this command for all domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can run this command only for your accessible domains.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
| OPTIONS             | <p>The following options are supported.</p> <table> <tr> <td>-a</td><td>Displays console information on all domains that can be accessed.</td></tr> <tr> <td>-d <i>domain_id</i></td><td>Specifies only one ID of the domain for which information is to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> </table>                                                                                                                                                                                 | -a   | Displays console information on all domains that can be accessed. | -d <i>domain_id</i> | Specifies only one ID of the domain for which information is to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration. | -h    | Displays usage statement. When used with other options or operands, an error occurs. |  |                                           |  |                                          |        |                                       |      |                                      |
| -a                  | Displays console information on all domains that can be accessed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
| -d <i>domain_id</i> | Specifies only one ID of the domain for which information is to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |
| -h                  | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                           |  |                                          |        |                                       |      |                                      |

**EXTENDED  
DESCRIPTION**

Only one writable console and one or more read-only consoles can be connected to one domain.

**EXAMPLES**

**EXAMPLE 1** Displays console information on all domains that can be accessed.

```
XSCF> showconsolepath -a
User DID ro/rw escape Date
nakagawa 00 rw @ Fri Jul 29 21:23:34
hana 00 ro # Fri Jul 29 09:49:12
k-okano 00 ro # Fri Jul 29 18:21:50
yuuki 01 rw | Fri Jul 29 10:19:18
uchida 01 ro * Fri Jul 29 13:30:41
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

`console(8)`, `sendbreak(8)`

|                      |                                                                                                                                                                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showdate - display the date and time of XSCF                                                                                                                                                                                                                                                                   |
| SYNOPSIS             | <b>showdate</b> -u<br><b>showdate</b> -h                                                                                                                                                                                                                                                                       |
| DESCRIPTION          | The showdate(8) command displays the date and time of XSCF.                                                                                                                                                                                                                                                    |
| Privileges           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                  |
| OPTIONS              | <p>The following options are supported:</p> <p>-h                      Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-u                      Specifies time in coordinated universal time (UTC). When the -u option is omitted, the local time is specified.</p> |
| EXTENDED DESCRIPTION | The setdate(8) command sets the XSCF date and time.                                                                                                                                                                                                                                                            |
| EXAMPLES             | <p><b>EXAMPLE 1</b>      Displays the current time as the local time (JST).</p> <pre>XSCF&gt; <b>showdate</b> Mon Jan 23 14:53:00 JST 2006</pre> <p><b>EXAMPLE 2</b>      Displays the current time in UTC.</p> <pre>XSCF&gt; <b>showdate -u</b> Mon Jan 23 05:56:15 UTC 2006</pre>                            |
| EXIT STATUS          | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                                                                         |
| SEE ALSO             | <b>setdate</b> (8), <b>settimezone</b> (8), <b>showtimezone</b> (8)                                                                                                                                                                                                                                            |

showdate(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showdateoffset - display the time differences between the time of the system and the time of the domains                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SYNOPSIS    | <p><b>showdateoffset</b> -d <i>domain_id</i></p> <p><b>showdateoffset</b> -a</p> <p><b>showdateoffset</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DESCRIPTION | <p>The showdateoffset(8) command displays the time differences between the time of the system, managed by the XSCF clock, and the time of the domains, which is managed by each domain clock in second.</p> <p>If you change the time setting on a domain, for example by using the date(1M) command, the time of that domain differs from the time of the system. The difference between revised time of the domain and the time of the system is stored on the XSCF, and is retained after domain reboot and after XSCF reset.</p> <p>Execute the showdateoffset(8) command to display the time differences between the time of the system and the time of all domains. The outputs of the command will be displayed in second.</p> |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, fieldeng</p> <p>Can run this command for all domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can run this command only for your accessible domains.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                           |
| OPTIONS     | <p>The following options are supported:</p> <p>-a                Displays the time differences between the time of the system and the time of all accessible domains.</p> <p>-d <i>domain_id</i>    Specifies only one ID of the domain on which the time differences is displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.</p> <p>-h                Displays usage statement.</p>                                                                                                                                                                                                                                                                                                                        |

**EXAMPLES**

**EXAMPLE 1** On the M3000 server, displays the time differences between the time of the system and the time of the domains with specifying the ID of the domain.

```
XSCF> showdateoffset
DID Domain Date Offset
00 128 sec
```

**EXAMPLE 2** On the M5000 server, displays the time differences between the time of the system and the time of the domains.

```
XSCF> showdateoffset
DID Domain Date Offset
00 128 sec
01 0 sec
02 -1024 sec
03 -9999999 sec
```

**EXAMPLE 3** On the M8000 server, displays the time differences between the time of the system and the time of the domains.

```
XSCF> showdateoffset
DID Domain Date Offset
00 128 sec
01 0 sec
02 -1024 sec
03 1 sec
04 199 sec
05 -82 sec
06 0 sec
07 0 sec
08 9999 sec
09 -14 sec
10 -123 sec
11 -6 sec
12 54 sec
13 0 sec
14 300 sec
15 901 sec
16 0 sec
17 0 sec
18 -111 sec
19 0 sec
20 3 sec
21 21 sec
22 -621 sec
23 -9999999 sec
```

|                    |                                         |
|--------------------|-----------------------------------------|
| <b>EXIT STATUS</b> | The following exit values are returned: |
| 0                  | Successful completion.                  |
| >0                 | An error occurred.                      |

|                 |                            |
|-----------------|----------------------------|
| <b>SEE ALSO</b> | <b>resetdateoffset</b> (8) |
|-----------------|----------------------------|

showdateoffset(8)





|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |           |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| NAME        | showdcl - display the current domain component list (DCL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |           |
| SYNOPSIS    | <b>showdcl</b> [-v] -a<br><b>showdcl</b> [-v] -d <i>domain_id</i> [-l <i>lsb</i> [-l <i>lsb</i> ]]<br><b>showdcl</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |           |
| DESCRIPTION | <p>The <code>showdcl(8)</code> command displays the DCL that has been set by the <code>setdcl(8)</code> command.</p> <p>The DCL is hardware resource information that can be set for a domain or the logical system boards (LSBs) that are components of a domain.</p> <p>An LSB is a board unit recognized by the Oracle Solaris OS in a domain. Up to 16 LSBs can be registered for each domain, and they are represented by integer numbers ranging from 0 to 15.</p> <p>An XSB is a board unit that can be used in the system and is one division of a divided physical system board (PSB). An XSB is represented by <i>x-y</i>, a combination of a PSB number and the number of one division of the divided PSB (<i>x</i> is an integer ranging from 00 to 15, and <i>y</i> is an integer ranging from 0 to 3).</p> <p>The <code>showdcl(8)</code> command can display the following information that is part of a DCL:</p> <table><tr><td>DID</td><td>Domain ID</td></tr></table> | DID | Domain ID |
| DID         | Domain ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |           |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LSB    | LSB number. The displayed number is an integer ranging from 00 to 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| XSB    | <p>XSB number corresponding to the LSB. The displayed number has the following format:</p> <p><math>x</math>-<math>y</math></p> <p>where:</p> <p><math>x</math>                      An integer from 00–15.</p> <p><math>y</math>                      An integer from 0–3.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Status | <p>Domain status. One of the following status is displayed. Additional information may be displayed.</p> <p>Powered Off</p> <p>Power is off.</p> <p>Panic State</p> <p>A panic occurred, and the domain is in the reboot state.</p> <p>Shutdown Started</p> <p>The power-off process is starting.</p> <p>Initialization Phase</p> <p>OpenBoot PROM initialization is in progress.</p> <p>OpenBoot Executing Completed</p> <p>The system is in the OpenBoot PROM (ok prompt) state.</p> <p>Booting/OpenBoot PROM prompt</p> <p>The Oracle Solaris OS is booting. Or due to the domain shutdown or reboot, the system is in the OpenBoot PROM running state or is suspended in the OpenBoot PROM (ok prompt) state.</p> <p>Running</p> <p>The Oracle Solaris OS is running.</p> |

If the `-v` option is specified, the following information is added:

|            |                                                                                                                                      |                                                                      |
|------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Cfg-policy | Degradation range applicable for an error detected during an initial diagnosis of hardware. Any of the following is displayed:       |                                                                      |
|            | FRU                                                                                                                                  | Degradation of a component (default)                                 |
|            | XSB                                                                                                                                  | Degradation of an XSB.                                               |
|            | System                                                                                                                               | Degradation of a domain                                              |
| No-Mem     | Whether to omit the use of memory on a domain. Either of the following is displayed:                                                 |                                                                      |
|            | True                                                                                                                                 | Omits the use of memory on a domain.                                 |
|            | False                                                                                                                                | Does not omit the use of memory on a domain (default).               |
| No-IO      | Whether to omit the use of I/O devices on a domain. Either of the following is displayed:                                            |                                                                      |
|            | True                                                                                                                                 | Omits the use of I/O devices on a domain.                            |
|            | False                                                                                                                                | Does not omit the use of I/O devices on a domain (default).          |
| Float      | Whether to set a priority for the specified LSB as a floating board, relative to other boards. Either of the following is displayed: |                                                                      |
|            | True                                                                                                                                 | Gives a higher priority to the LSB to become a floating board.       |
|            | False                                                                                                                                | Does not give a higher priority regarding floating boards (default). |

**Privileges** You must have one of the following privileges to run this command:

`platadm, platop, fieldeng`

Can execute the command for all domains.

`domainadm, domainmgr, domainop`

Can execute the command only for accessible domain.

Refer to `setprivileges(8)` for more information.

|                     |                                                                                                                                                                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OPTIONS             | The following options are supported:.                                                                                                                                                                                                                                       |
| -a                  | Displays information that is set for all domains.                                                                                                                                                                                                                           |
| -d <i>domain_id</i> | Specifies the ID of the domain for which information is to be displayed. The <i>domain_id</i> can be 0–23 depending on the system configuration.                                                                                                                            |
| -h                  | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                        |
| -l <i>lsb</i>       | Specifies the LSB number whose information is to be displayed. Multiple -l options can be specified by delimiting them with spaces. Specify an <i>lsb</i> value by using an integer ranging from 0 to 15. If <i>lsb</i> is omitted, all the LSBs in the domain are targets. |
| -v                  | Also displays information on Cfg-policy, No-Mem, No-IO, and Float in the DCL.                                                                                                                                                                                               |

|                      |                                                                                                                                                                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"><li>■ An XSB for which the floating board priority is set to a low value is difficult to use as a floating board. Accordingly, it is difficult for the system board to affect the domain Oracle Solaris OS.</li><li>■ The setdcl(8) command sets the DCL.</li></ul> |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

EXAMPLES      **EXAMPLE 1**      Displays detailed information on the DCL that is set for domain ID 0

```
XSCF> showdcl -d 0
```

| DID | LSB | XSB  | Status  |
|-----|-----|------|---------|
| 00  |     |      | Running |
|     | 00  | 00-0 |         |
|     | 04  | 01-0 |         |
|     | 08  | 02-0 |         |
|     | 12  | 03-0 |         |

**EXAMPLE 2**      Displays details in the DCL that is set for domain ID 0.

```
XSCF> showdcl -v -d 0
```

| DID | LSB | XSB  | Status  | No-Mem | No-IO | Float | Cfg-policy |
|-----|-----|------|---------|--------|-------|-------|------------|
| 00  |     |      | Running |        |       |       | FRU        |
|     | 00  | 00-0 |         | False  | False | False |            |
|     | 01  | -    |         |        |       |       |            |
|     | 02  | -    |         |        |       |       |            |
|     | 03  | -    |         |        |       |       |            |
|     | 04  | 01-0 |         | False  | True  | False |            |
|     | 05  | -    |         |        |       |       |            |
|     | 06  | -    |         |        |       |       |            |
|     | 07  | -    |         |        |       |       |            |
|     | 08  | 02-0 |         | True   | True  | True  |            |

```

09 -
10 -
11 -
12 03-0 True True False
13 -
14 -
15 -

```

**EXAMPLE 3** Displays details in the DCL that are set for all domains.

XSCF> **showdcl -v -a**

| DID   | LSB | XSB  | Status                            | No-Mem | No-IO | Float | Cfg-policy |
|-------|-----|------|-----------------------------------|--------|-------|-------|------------|
| 00    |     |      | Running                           |        |       |       | FRU        |
|       | 00  | 00-0 |                                   | False  | False | False |            |
|       | 01  | -    |                                   |        |       |       |            |
|       | 02  | -    |                                   |        |       |       |            |
|       | 03  | -    |                                   |        |       |       |            |
|       | 04  | 01-0 |                                   | False  | True  | False |            |
|       | 05  | -    |                                   |        |       |       |            |
|       | 06  | -    |                                   |        |       |       |            |
|       | 07  | -    |                                   |        |       |       |            |
|       | 08  | 02-0 |                                   | True   | True  | True  |            |
|       | 09  | -    |                                   |        |       |       |            |
|       | 10  | -    |                                   |        |       |       |            |
|       | 11  | -    |                                   |        |       |       |            |
|       | 12  | 03-0 |                                   | True   | True  | False |            |
|       | 13  | -    |                                   |        |       |       |            |
|       | 14  | -    |                                   |        |       |       |            |
|       | 15  | -    |                                   |        |       |       |            |
| ----- |     |      |                                   |        |       |       |            |
| 01    |     |      | Running (Waiting for OS Shutdown) |        |       |       | FRU        |
|       | 00  | 01-2 |                                   | True   | True  | False |            |
|       | 01  | 04-0 |                                   | False  | False | False |            |
|       | 02  | -    |                                   |        |       |       |            |
|       | 03  | -    |                                   |        |       |       |            |
|       | 04  | -    |                                   |        |       |       |            |
|       | 05  | -    |                                   |        |       |       |            |
|       | 06  | -    |                                   |        |       |       |            |
|       | 07  | 05-0 |                                   | True   | False | False |            |
|       | 08  | -    |                                   |        |       |       |            |
|       | 09  | -    |                                   |        |       |       |            |
|       | 10  | -    |                                   |        |       |       |            |
|       | 11  | -    |                                   |        |       |       |            |
|       | 12  | -    |                                   |        |       |       |            |
|       | 13  | -    |                                   |        |       |       |            |

showdcl(8)

|       |      |      |      |      |
|-------|------|------|------|------|
| 14    | 06-0 | True | True | True |
| 15    | -    |      |      |      |
| ----- |      |      |      |      |
| :     |      |      |      |      |
| :     |      |      |      |      |

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

**addboard (8), deleteboard (8), moveboard (8), setdcl (8), setupfru (8), showboards (8), showdevices (8), showfru (8)**

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|-----|------------|----|--------------|-------|---------------------|-------|---------------------|--------|------------------------------|-----------|----------------------------------------|----------|---------------------------------------------------------------------|--------------|-----------------------------------------------|------------|-----------------------------------|
| NAME         | showdevices - display current information on an eXtended System Board (XSB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| SYNOPSIS     | <b>showdevices</b> [-v] [-p bydevice   byboard   query   force] <i>xsb</i><br><b>showdevices</b> [-v] [-p bydevice   byboard] -d <i>domain_id</i><br><b>showdevices</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| DESCRIPTION  | <p>The showdevices(8) command displays the information of the physical devices configured on XSB and their available resources of these devices.</p> <p>The information of available resources can be obtained for the devices managed by the operating system. The command can also display in advance whether the XSB can be disconnected from the domain using the dynamic reconfiguration (DR) function.</p> <p>The following types of information are displayed:</p> <p>Common:</p> <table><tr><td>DID</td><td>Domain ID</td></tr><tr><td>XSB</td><td>XSB number</td></tr></table> <p>CPU:</p> <table><tr><td>id</td><td>processor ID</td></tr><tr><td>state</td><td>status of processor</td></tr><tr><td>speed</td><td>CPU frequency (MHz)</td></tr><tr><td>ecache</td><td>CPU external cache size (MB)</td></tr></table> <p>MEMORY:</p> <table><tr><td>board mem</td><td>Size of memory mounted on the XSB (MB)</td></tr><tr><td>perm mem</td><td>Size of memory that mounted and cannot be relocated on the XSB (MB)</td></tr><tr><td>base address</td><td>Physical address of memory mounted on the XSB</td></tr><tr><td>domain mem</td><td>Size of memory on the domain (MB)</td></tr></table> | DID | Domain ID | XSB | XSB number | id | processor ID | state | status of processor | speed | CPU frequency (MHz) | ecache | CPU external cache size (MB) | board mem | Size of memory mounted on the XSB (MB) | perm mem | Size of memory that mounted and cannot be relocated on the XSB (MB) | base address | Physical address of memory mounted on the XSB | domain mem | Size of memory on the domain (MB) |
| DID          | Domain ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| XSB          | XSB number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| id           | processor ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| state        | status of processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| speed        | CPU frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| ecache       | CPU external cache size (MB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| board mem    | Size of memory mounted on the XSB (MB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| perm mem     | Size of memory that mounted and cannot be relocated on the XSB (MB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| base address | Physical address of memory mounted on the XSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| domain mem   | Size of memory on the domain (MB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------|-----------------------------|----------|-----------------------|-------|---------------------------------------------|-------|------------------------------------------------|
|                                | <p>When memory is being disconnected, the following items are displayed:</p> <table><tr><td>target</td><td>XSB</td><td>XSB number at the move destination</td></tr><tr><td>deleted</td><td>mem</td><td>Size of memory which was already deleted (MB)</td></tr><tr><td>remaining</td><td>mem</td><td>Size of remaining memory to be deleted (MB)</td></tr></table> <p>I/O devices:</p> <table><tr><td>device</td><td>Instance name of I/O device</td></tr><tr><td>resource</td><td>Managed resource name</td></tr><tr><td>usage</td><td>Description of the instance using resources</td></tr><tr><td>query</td><td>Results of an off-line inquiry about resources</td></tr></table>                                            | target                                        | XSB                                                                                                                                          | XSB number at the move destination | deleted                                                                              | mem        | Size of memory which was already deleted (MB)                                                                                                         | remaining   | mem                                                                                                                     | Size of remaining memory to be deleted (MB) | device | Instance name of I/O device | resource | Managed resource name | usage | Description of the instance using resources | query | Results of an off-line inquiry about resources |
| target                         | XSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | XSB number at the move destination            |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| deleted                        | mem                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Size of memory which was already deleted (MB) |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| remaining                      | mem                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Size of remaining memory to be deleted (MB)   |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| device                         | Instance name of I/O device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| resource                       | Managed resource name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| usage                          | Description of the instance using resources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| query                          | Results of an off-line inquiry about resources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| Privileges                     | <p>You must have one of the following privileges to run this command:</p> <table><tr><td>platadm, platop, fieldeng</td><td>Can run this command for all domains.</td></tr><tr><td>domainadm, domainmgr, domainop</td><td>Can run this command only for your accessible domains.</td></tr></table> <p>Refer to <code>setprivileges(8)</code> for more information.</p>                                                                                                                                                                                                                                                                                                                                                         | platadm, platop, fieldeng                     | Can run this command for all domains.                                                                                                        | domainadm, domainmgr, domainop     | Can run this command only for your accessible domains.                               |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| platadm, platop, fieldeng      | Can run this command for all domains.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| domainadm, domainmgr, domainop | Can run this command only for your accessible domains.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| OPTIONS                        | <p>The following options are supported.</p> <table><tr><td>-d <i>domain_id</i></td><td>Specifies the ID of the domain for which information is to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-p byboard</td><td>Displays results organized by XSB. The results can be further summarized by device and displayed. If the -p option is omitted, "-p bydevice" is used.</td></tr><tr><td>-p bydevice</td><td>Displays results organized by device type (CPU, memory, I/O, etc.). If the -p option is omitted, "-p bydevice" is used.</td></tr></table> | -d <i>domain_id</i>                           | Specifies the ID of the domain for which information is to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration. | -h                                 | Displays usage statement. When used with other options or operands, an error occurs. | -p byboard | Displays results organized by XSB. The results can be further summarized by device and displayed. If the -p option is omitted, "-p bydevice" is used. | -p bydevice | Displays results organized by device type (CPU, memory, I/O, etc.). If the -p option is omitted, "-p bydevice" is used. |                                             |        |                             |          |                       |       |                                             |       |                                                |
| -d <i>domain_id</i>            | Specifies the ID of the domain for which information is to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| -h                             | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| -p byboard                     | Displays results organized by XSB. The results can be further summarized by device and displayed. If the -p option is omitted, "-p bydevice" is used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |
| -p bydevice                    | Displays results organized by device type (CPU, memory, I/O, etc.). If the -p option is omitted, "-p bydevice" is used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |                                                                                                                                              |                                    |                                                                                      |            |                                                                                                                                                       |             |                                                                                                                         |                                             |        |                             |          |                       |       |                                             |       |                                                |



- p force Predicts system resources deleted from the Oracle Solaris OS when an XSB is forcibly disconnected by "deleteboard -f" command. If the -p option is omitted, "-p bydevice" is used.
- p query Predicts system resources deleted from the Oracle Solaris OS when an XSB is disconnected by deleteboard command. If the -p option is omitted, "-p bydevice" is used.
- v Displays information on all I/O devices, including those that are not management targets. As information on the I/O devices that are not management targets, however, only physical configurations are displayed, and resources and use states are not displayed.

OPERANDS The following operand is supported:

- xsb* Specifies the XSB number for which information is to be displayed. The following xsb form is accepted:
- x-y*
- where:
- x* An integer from 00–15.
  - y* An integer from 0–3.

EXTENDED DESCRIPTION

- The showdevices(8) command will succeed only if the following Oracle Solaris Service Management Facility (SMF) services are active on that domain:
  - Domain SP Communication Protocol (dscp)
  - Domain Configuration Server (dcs)
  - Oracle Sun Cryptographic Key Management Daemon (sckmd)
- The showdevices(8) command displays a complete list of devices when executed right after an Oracle Solaris OS boot or a DR operation. However, when executed at other times, showdevices does not display a complete list if the Oracle Solaris OS has unloaded drivers for any unused devices. To be certain the displayed list is complete, run the devfsadm command with -v option on the domain before running showdevices. For more information about the devfsadm command, see the Oracle Solaris devfsadm(1M) man page.

EXAMPLES

**EXAMPLE 1** Displays the information of the physical devices configured on the XSB#00-0 and their available resources.

```
XSCF> showdevices 00-0
```

CPU:

```

DID XSB id state speed ecache
00 00-0 0 on-line 2530 5.5
00 00-0 1 on-line 2530 5.5
00 00-0 2 on-line 2530 5.5
00 00-0 3 on-line 2530 5.5
00 00-0 4 on-line 2530 5.5
00 00-0 5 on-line 2530 5.5
00 00-0 6 on-line 2530 5.5
00 00-0 7 on-line 2530 5.5

Memory:

board perm base domain target deleted remaining
DID XSB mem MB mem MB address mem MB XSB mem MB mem MB
00 00-0 2048 1290 0x000003c000000000 4096 03-0 250 1500

IO Devices:

DID XSB device resource usage
00 00-0 sd3 /dev/dsk/c0t3d0s0 mounted filesystem "/"
00 00-0 sd3 /dev/dsk/c0t3s0s1 dump device (swap)
00 00-0 sd3 /dev/dsk/c0t3s0s1 swap area
00 00-0 sd3 /dev/dsk/c0t3d0s3 mounted filesystem "/var"
00 00-0 sd3 /var/run mounted filesystem "/var/run"
```

**EXAMPLE 2** Displays detail information of the physical devices and their available resources in domain ID 0.

```
XSCF> showdevices -v -d 0
```

```

CPU:

DID XSB id state speed ecache
00 00-0 0 on-line 2530 5.5
00 00-0 1 on-line 2530 5.5
00 00-0 2 on-line 2530 5.5
00 00-0 3 on-line 2530 5.5
00 00-0 4 on-line 2530 5.5
00 00-0 5 on-line 2530 5.5
00 00-0 6 on-line 2530 5.5
00 00-0 7 on-line 2530 5.5
00 01-0 50 on-line 2048 4
00 01-0 51 on-line 2048 4
00 01-0 52 on-line 2048 4
```

```
00 01-0 53 on-line 2048 4

Memory:

 board perm base domain target deleted remaining
DID XSB mem MB mem MB address mem MB XSB mem MB mem MB
00 00-0 2048 1290 0x000003c000000000 4096 00-1 250 1500
00 01-0 2048 0 0x000002c000000000 4096

IO Devices:

DID XSB device resource usage
00 00-0 sd0
00 00-0 sd1
00 00-0 sd2
00 00-0 sd3 /dev/dsk/c0t3d0s0 mounted filesystem "/"
00 00-0 sd3 /dev/dsk/c0t3s0s1 dump device (swap)
00 00-0 sd3 /dev/dsk/c0t3s0s1 swap area
00 00-0 sd3 /dev/dsk/c0t3d0s3 mounted filesystem "/var"
00 00-0 sd3 /var/run mounted filesystem "/var/run"
00 00-0 sd4
00 00-0 sd5
00 00-0 sd6
```

**EXIT STATUS**      The following exit values are returned:

- 0                    Successful completion.
- >0                  An error occurred.

**SEE ALSO**      **addboard**(8), **deleteboard**(8), **moveboard**(8), **setdcl**(8), **setdscp**(8), **setupfru**(8), **showboards**(8), **showdcl**(8), **showfru**(8)

showdevices(8)



|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |                       |                  |                                                                                                                                                                                                                  |      |         |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|-----|----------|-----|---------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------|-----|----------|
| NAME             | showdomainmode - display the modes of operation for the specified domain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                       |                  |                                                                                                                                                                                                                  |      |         |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |
| SYNOPSIS         | <b>showdomainmode</b> -d <i>domain_id</i> [-v]<br><b>showdomainmode</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |                       |                  |                                                                                                                                                                                                                  |      |         |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |
| DESCRIPTION      | <p>showdomainmode(8) command displays the modes of operation that are set for the specified domain.</p> <p>The following states are displayed:</p> <table><tr><td>HOST-ID</td><td>Displays the host ID.</td></tr><tr><td>Diagnostic Level</td><td>Displays the OpenBoot PROM diagnostic level. One of the following is displayed:<br/><table><tr><td>none</td><td>None</td></tr><tr><td>min</td><td>Standard</td></tr><tr><td>max</td><td>Maximum</td></tr></table></td></tr><tr><td>Secure Mode</td><td>Displays the states of the host watchdog function and function that suppresses break signal reception. One of the following is displayed:<br/><table><tr><td>on</td><td>Enabled</td></tr><tr><td>off</td><td>Disabled</td></tr></table></td></tr></table> | HOST-ID | Displays the host ID. | Diagnostic Level | Displays the OpenBoot PROM diagnostic level. One of the following is displayed:<br><table><tr><td>none</td><td>None</td></tr><tr><td>min</td><td>Standard</td></tr><tr><td>max</td><td>Maximum</td></tr></table> | none | None    | min | Standard | max | Maximum | Secure Mode | Displays the states of the host watchdog function and function that suppresses break signal reception. One of the following is displayed:<br><table><tr><td>on</td><td>Enabled</td></tr><tr><td>off</td><td>Disabled</td></tr></table> | on | Enabled | off | Disabled |
| HOST-ID          | Displays the host ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |                       |                  |                                                                                                                                                                                                                  |      |         |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |
| Diagnostic Level | Displays the OpenBoot PROM diagnostic level. One of the following is displayed:<br><table><tr><td>none</td><td>None</td></tr><tr><td>min</td><td>Standard</td></tr><tr><td>max</td><td>Maximum</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | none    | None                  | min              | Standard                                                                                                                                                                                                         | max  | Maximum |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |
| none             | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                       |                  |                                                                                                                                                                                                                  |      |         |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |
| min              | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                       |                  |                                                                                                                                                                                                                  |      |         |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |
| max              | Maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |                       |                  |                                                                                                                                                                                                                  |      |         |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |
| Secure Mode      | Displays the states of the host watchdog function and function that suppresses break signal reception. One of the following is displayed:<br><table><tr><td>on</td><td>Enabled</td></tr><tr><td>off</td><td>Disabled</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | on      | Enabled               | off              | Disabled                                                                                                                                                                                                         |      |         |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |
| on               | Enabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |                       |                  |                                                                                                                                                                                                                  |      |         |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |
| off              | Disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                       |                  |                                                                                                                                                                                                                  |      |         |     |          |     |         |             |                                                                                                                                                                                                                                        |    |         |     |          |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <div>Autoboot</div> <div>Displays the state of the auto boot function. One of the following is displayed:</div> <div><div>on</div><div>Enabled</div><div>off</div><div>Disabled</div></div>                                                                                                                                                                                                                                                                                                                                               |
|                      | <div>CPU Mode</div> <div>Way of determining the CPU operational mode mounted on the domain. One of the following is displayed.</div> <div><div>auto</div><div>Automatically determines at domain startup</div><div>compatible</div><div>Sets to the SPARC64 VI compatible mode regardless of the CPUs mounted</div></div>                                                                                                                                                                                                                 |
|                      | <div>Ethernet Address</div> <div>XSCF-supplied domain ethernet (mac) address. This is the address that OpenBoot PROM/Oracle Solaris will use when its configuration parameter <code>local-mac-address?</code> is set to <code>false</code>. This information will be displayed only if the <code>-v</code> option is specified.</div>                                                                                                                                                                                                     |
| Privileges           | <div>You must have one of the following privileges to run this command:</div> <div><div>platadm, fieldeng</div><div>Can run this command for all domains.</div><div>domainadm</div><div>Can run this command only for your managed domains.</div></div> <div>Refer to <code>setprivileges(8)</code> for more information.</div>                                                                                                                                                                                                           |
| OPTIONS              | <div>The following operands are supported:</div> <div><div><div>-d <i>domain_id</i></div><div>Specifies the domain ID of the domain to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.</div></div><div><div>-h</div><div>Displays usage statement. When used with other options or operands, an error occurs.</div></div><div><div>-v</div><div>Displays detailed information. When this option is specified, the XSCF-supplied domain ethernet (mac) address will also be displayed.</div></div></div> |
| EXTENDED DESCRIPTION | <div>■ If the Mode switch of the operator panel is set to <code>Service</code>, the settings of the modes of operation for the specified domain have the following values, regardless of the domain mode displayed by the <code>showdomainmode(8)</code> command:</div>                                                                                                                                                                                                                                                                   |

- OpenBoot PROM diagnostic level (Diagnostic Level), CPU operational mode (CPU Mode): operates as the showdomainmode(8) command display
- Host watchdog and suppress break signal reception (Secure Mode), auto boot function (Autoboot): off
- When the OpenBoot PROM environmental variable 'auto-boot?' has been set to false, the auto boot function is disabled.
- The setdomainmode(8) command sets the modes of operation specified for a domain.

**EXAMPLES**

**EXAMPLE 1** Displays the modes of operation that are set for domain ID 0.

```
XSCF> showdomainmode -d 0
Host-ID :0f010f10
Diagnostic Level :min
Secure Mode :on
Autoboot :on
CPU Mode :auto
```

**EXAMPLE 2** Displays the modes of operation that are set for domain ID 0 with -v option specified.

```
XSCF> showdomainmode -d 0 -v
Host-ID :8099010c
Diagnostic Level :min
Secure Mode :off
Autoboot :on
CPU Mode :auto
Ethernet Address :00:0b:5d:e2:01:0c
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

**setdomainmode(8)**

showdomainmode(8)





|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showdomainstatus - display the current domain component list (DCL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SYNOPSIS    | <p><b>showdomainstatus</b> -d <i>domain_id</i></p> <p><b>showdomainstatus</b> -a</p> <p><b>showdomainstatus</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| DESCRIPTION | <p>The showdomainstatus(8) command displays the current status of the specified domain.</p> <p>One of the following states is displayed for each domain. Additional information may be displayed.</p> <p>Powered Off</p> <p>Power is off.</p> <p>Panic State</p> <p>A panic occurred, and the domain is in the reboot state.</p> <p>Shutdown Started</p> <p>The power-off process is starting.</p> <p>Initialization Phase</p> <p>OpenBoot PROM initialization is in progress.</p> <p>OpenBoot Execution Completed</p> <p>The system is in the OpenBoot PROM (ok prompt) state.</p> <p>Booting/OpenBoot PROM prompt</p> <p>The Oracle Solaris OS is booting. Or due to the domain shutdown or reboot, the system is in the OpenBoot PROM running state or is suspended in the OpenBoot PROM (ok prompt) state.</p> <p>Running</p> <p>The Oracle Solaris OS is running.</p> <p>-</p> <p>Domain is not defined.</p> |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, fieldeng</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                                                                  |                     |                                                                                                                          |    |                                                                                      |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|
|                     | <p>Can run this command for all domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can run this command only for your accessible domains.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                         |    |                                                                  |                     |                                                                                                                          |    |                                                                                      |
| OPTIONS             | <p>The following options are supported.</p> <table><tr><td>-a</td><td>Displays status information on all domains that can be accessed.</td></tr><tr><td>-d <i>domain_id</i></td><td>Specifies only one ID of the domain to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr></table> | -a | Displays status information on all domains that can be accessed. | -d <i>domain_id</i> | Specifies only one ID of the domain to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration. | -h | Displays usage statement. When used with other options or operands, an error occurs. |
| -a                  | Displays status information on all domains that can be accessed.                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                  |                     |                                                                                                                          |    |                                                                                      |
| -d <i>domain_id</i> | Specifies only one ID of the domain to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.                                                                                                                                                                                                                                                                                                                        |    |                                                                  |                     |                                                                                                                          |    |                                                                                      |
| -h                  | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                            |    |                                                                  |                     |                                                                                                                          |    |                                                                                      |
| EXAMPLES            | <p><b>EXAMPLE 1</b> Displays status information on all domains.</p> <pre>XSCF&gt; showdomainstatus -a DID          Domain Status 00           Running 01           Running (Waiting for OS Shutdown) 02           Powered Off 03           Panic State 04           Shutdown Started 05           Booting/OpenBoot PROM prompt 06           Initialization Phase 07           OpenBoot Execution Completed</pre>                                |    |                                                                  |                     |                                                                                                                          |    |                                                                                      |
| EXIT STATUS         | <p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>&gt;0</td><td>An error occurred.</td></tr></table>                                                                                                                                                                                                                                                                              | 0  | Successful completion.                                           | >0                  | An error occurred.                                                                                                       |    |                                                                                      |
| 0                   | Successful completion.                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                  |                     |                                                                                                                          |    |                                                                                      |
| >0                  | An error occurred.                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                                                  |                     |                                                                                                                          |    |                                                                                      |
| SEE ALSO            | <p><b>poweroff(8), poweron(8), reset(8), showdcl(8)</b></p>                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                  |                     |                                                                                                                          |    |                                                                                      |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showdscp - display the IP addresses assigned to the Domain to Service Processor Communications Protocol (DSCP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SYNOPSIS    | <p><b>showdscp</b></p> <p><b>showdscp</b> [-v] [-p]</p> <p><b>showdscp</b> [-v] [-p] -d <i>domain_id</i></p> <p><b>showdscp</b> [-v] [-p] -s</p> <p><b>showdscp</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| DESCRIPTION | <p>showdscp(8) displays the IP addresses assigned for DSCP usage, the IP addresses for an individual domain, the Service Processor, or for the entire system. When used without options, it displays current IP data.</p> <p>When displaying IP addresses for all DSCP links in the system, the output is a table. The table is sorted by numerical domain IDs.</p> <p>When displaying IP addresses for a particular domain or just the Service Processor, then the output is not a table but simply the IP address of the specified domain or Service Processor.</p> <p>The -p option can be used to generate parsable output that would then be suitable for use in a script. Parsable displays of individual IP addresses exclude any additional labels, and only an IPv4 address in dotted-decimal form is output. The parsable version of tabular output includes only the values (no table headings are included), and each column is separated by a single tab character.</p> |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>fieldeng, platadm, platop:</p> <p>Can display any DSCP IP information.</p> <p>domainadm, domainmgr, domainop:</p> <p>Can display individual IP addresses for domains for which you have privileges only.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

OPTIONS

The following options are supported:

- d *domain\_id*     Displays an individual domain's IP address.
- h                   Displays usage statement.  
                      When used with other options or operands, an error occurs.
- p                   Generates parsable output.
- s                   Displays the Service Processor's IP address.
- v                   Specifies verbose output. Prints additional information about internal progress of the program's operations to the screen.

EXAMPLES



**Caution –** The IP addresses shown in the following examples are examples only.

**EXAMPLE 1**     Displaying a Table of All DSCP IP Addresses

```
XSCF> showdscp

DSCP Configuration

Network: 10.1.1.0
Netmask: 255.255.255.0

 Location Address

XSCF 10.1.1.1
Domain #00 10.1.1.2
Domain #01 10.1.1.3
Domain #02 10.1.1.4
Domain #03 10.1.1.5
Domain #04 10.1.1.6
Domain #05 10.1.1.7
Domain #06 10.1.1.8
Domain #07 10.1.1.9
Domain #08 10.1.1.10
Domain #09 10.1.1.11
Domain #10 10.1.1.12
Domain #11 10.1.1.13
Domain #12 10.1.1.14
Domain #13 10.1.1.15
Domain #14 10.1.1.16
Domain #15 10.1.1.17
```

```
Domain #16 10.1.1.18
Domain #17 10.1.1.19
Domain #18 10.1.1.20
Domain #19 10.1.1.21
Domain #20 10.1.1.22
Domain #21 10.1.1.23
Domain #22 10.1.1.24
Domain #23 10.1.1.25
```

**EXAMPLE 2**     Displaying a Specific Domain’s IP Address

```
XSCF> showdscp -d 1
Domain #01 Address: 10.1.1.3
```

**EXAMPLE 3**     Displaying a Specific Domain’s IP Address in a Parsable Form

```
XSCF> showdscp -p -d 1
Domain[1] 10.1.1.3
```

**EXAMPLE 4**     Displaying All DSCP Address Information In a Parsable Form

```
XSCF> showdscp -p
Network 10.1.1.0
Netmask 255.255.255.0
XSCF 10.1.1.1
Domain[0] 10.1.1.2
Domain[1] 10.1.1.3
Domain[2] 10.1.1.4
Domain[3] 10.1.1.5
Domain[4] 10.1.1.6
Domain[5] 10.1.1.7
Domain[6] 10.1.1.8
Domain[7] 10.1.1.9
Domain[8] 10.1.1.10
Domain[9] 10.1.1.11
...
```

**EXIT STATUS**     The following exit values are returned:

- 0                    Successful completion.
- >0                  An error occurred.

**SEE ALSO**        **setdscp ( 8 )**

showdscp(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showdualpowerfeed - display the current setting of dual power feed mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SYNOPSIS    | <b>showdualpowerfeed</b><br><b>showdualpowerfeed -h</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| DESCRIPTION | <p>The showdualpowerfeed(8) command displays the current setting of dual power feed mode in the system.</p> <p><b>Note</b> – The ability to display the current status of the dual power feed is available on M3000/M4000/M5000 servers only. However, the dual power feed mode cannot be used with 100V power on M4000/M5000 servers. When the optional power cabinet for dual power feed is connected on M8000/M9000 servers, it automatically configures the dual power feed mode. For details about the setting the dual power feed, see the <i>Installation Guide</i> for your server.</p> <p>The dual power feed mode can be set by the setdualpowerfeed(8) command. Also, before the dual power feed mode is changed by the setdualpowerfeed(8) command, the values of changed settings are displayed.</p> |
| Privileges  | <p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| OPTIONS     | <p>The following options are supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EXAMPLES    | <p><b>EXAMPLE 1</b>      Displays the current setting of dual power feed mode in the system.</p> <pre>XSCF&gt; showdualpowerfeed Dual power feed is enabled.</pre> <p><b>EXAMPLE 2</b>      Changes the dual power feed mode with the setdualpowerfeed(8) command and then displays the current state.</p> <pre>XSCF&gt; showdualpowerfeed enable -&gt; disable NOTE: Dual power feed will be disabled the next time the platform is powered on.</pre>                                                                                                                                                                                                                                                                                                                                                            |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SEE ALSO    | setdualpowerfeed (8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

showdualpowerfeed(8)





|                             |                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>                 | showemailreport - display the email report configuration data                                                                                                                                                             |
| <b>SYNOPSIS</b>             | <b>showemailreport -v</b><br><b>showemailreport -h</b>                                                                                                                                                                    |
| <b>DESCRIPTION</b>          | showemailreport(8) displays the email reporting configuration data. When used without options, it displays current email report configuration data.                                                                       |
| <b>Privileges</b>           | <p>You must have platadm, platop or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                   |
| <b>OPTIONS</b>              | <p>The following options are supported:</p> <p>-h            Displays usage statement.</p> <p>              When used with other options or operands, an error occurs.</p> <p>-v            Specifies verbose output.</p> |
| <b>EXTENDED DESCRIPTION</b> | Emailreport information includes whether Emailreporting is enabled. If enabled, it also includes the list of addresses.                                                                                                   |
| <b>EXAMPLES</b>             | <p><b>EXAMPLE 1</b>    Displaying Emailreport configuration</p> <pre>XSCF&gt; showemailreport EMail Reporting: enabled Email Recipient Address: admin@company.com, adm2@company.com</pre>                                 |
| <b>EXIT STATUS</b>          | <p>The following exit values are returned:</p> <p>0            Successful completion.</p> <p>&gt;0          An error occurred.</p>                                                                                        |
| <b>SEE ALSO</b>             | <b>setemailreport(8)</b>                                                                                                                                                                                                  |

showemailreport(8)



|                               |                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |              |                              |                     |                                 |                     |                                                                    |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|------------------------------|---------------------|---------------------------------|---------------------|--------------------------------------------------------------------|
| NAME                          | showenvironment - display the airflow volume, intake air temperature and humidity, temperature sensor, voltage sensor, fan speed, and power consumption information in the server |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |              |                              |                     |                                 |                     |                                                                    |
| SYNOPSIS                      | <b>showenvironment</b> [-M] [ <i>type</i> ]<br><b>showenvironment</b> -h                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |              |                              |                     |                                 |                     |                                                                    |
| DESCRIPTION                   | showenvironment(8) command displays the information listed below.                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |              |                              |                     |                                 |                     |                                                                    |
|                               | The following types of the information are displayed:                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |              |                              |                     |                                 |                     |                                                                    |
|                               | Exhaust air information                                                                                                                                                           | Amount of exhaust air from the server.<br><br>Display of exhaust air information is supported only on the M3000/M8000/M9000 servers.                                                                                                                                                                                                                                                                                                        |  |              |                              |                     |                                 |                     |                                                                    |
|                               | Environment information                                                                                                                                                           | Intake temperature and humidity of the system<br><br>Humidity is supported only on the M8000/M9000 servers.                                                                                                                                                                                                                                                                                                                                 |  |              |                              |                     |                                 |                     |                                                                    |
|                               | Temperature information                                                                                                                                                           | Intake temperature of the system and exhaust temperature of each component<br><br>You can check the exhaust temperature of the following components.<br><br><table><tr><td>M3000 server</td><td>motherboard unit(MBU_A), CPU</td></tr><tr><td>M4000/M5000 servers</td><td>CPU module(CPUM), I/O unit(IOU)</td></tr><tr><td>M8000/M9000 servers</td><td>CPU/memory board unit(CMU), CPU module(CPUM), crossbar unit(XBU_B)</td></tr></table> |  | M3000 server | motherboard unit(MBU_A), CPU | M4000/M5000 servers | CPU module(CPUM), I/O unit(IOU) | M8000/M9000 servers | CPU/memory board unit(CMU), CPU module(CPUM), crossbar unit(XBU_B) |
|                               | M3000 server                                                                                                                                                                      | motherboard unit(MBU_A), CPU                                                                                                                                                                                                                                                                                                                                                                                                                |  |              |                              |                     |                                 |                     |                                                                    |
|                               | M4000/M5000 servers                                                                                                                                                               | CPU module(CPUM), I/O unit(IOU)                                                                                                                                                                                                                                                                                                                                                                                                             |  |              |                              |                     |                                 |                     |                                                                    |
|                               | M8000/M9000 servers                                                                                                                                                               | CPU/memory board unit(CMU), CPU module(CPUM), crossbar unit(XBU_B)                                                                                                                                                                                                                                                                                                                                                                          |  |              |                              |                     |                                 |                     |                                                                    |
|                               | Voltage information                                                                                                                                                               | Voltage sensor value                                                                                                                                                                                                                                                                                                                                                                                                                        |  |              |                              |                     |                                 |                     |                                                                    |
|                               | Fan speed information                                                                                                                                                             | Fan rotational state and revolutions per unit of time                                                                                                                                                                                                                                                                                                                                                                                       |  |              |                              |                     |                                 |                     |                                                                    |
| Power consumption information | Maximum rated power consumption value<br><br>The power consumption information is supported only on the M3000 server.                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |              |                              |                     |                                 |                     |                                                                    |
| Privileges                    | You must have one of the following privileges to run this command:<br><br>useradm, platadm, platop, fieldeng                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |              |                              |                     |                                 |                     |                                                                    |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------|------|-------------------------------|-----|---------------------------------|-------|-----------------------------------------|-----|-------------------------------------------------------|
|                      | Refer to <code>setprivileges(8)</code> for more information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
| OPTIONS              | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-M</td><td>Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.</td></tr></table>                                                                                                                                                                                                                                                                                                                                         | -h          | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                            | -M   | Displays text by page. This option provides a function that is the same as that of the <code>more</code> command. |      |                               |     |                                 |       |                                         |     |                                                       |
| -h                   | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
| -M                   | Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
| OPERANDS             | <p>The following operand is supported:</p> <table><tr><td><i>type</i></td><td>Specifies the one of the type of information to be displayed. The following types can be specified. If this type setting is omitted, intake temperature and humidity information about the system is displayed:</td></tr><tr><td>temp</td><td>Displays temperature information.</td></tr><tr><td>volt</td><td>Displays voltage information.</td></tr><tr><td>Fan</td><td>Displays fan speed information.</td></tr><tr><td>power</td><td>Displays power consumption information.</td></tr><tr><td>air</td><td>Displays the volume of air exhausted from the server.</td></tr></table> | <i>type</i> | Specifies the one of the type of information to be displayed. The following types can be specified. If this type setting is omitted, intake temperature and humidity information about the system is displayed: | temp | Displays temperature information.                                                                                 | volt | Displays voltage information. | Fan | Displays fan speed information. | power | Displays power consumption information. | air | Displays the volume of air exhausted from the server. |
| <i>type</i>          | Specifies the one of the type of information to be displayed. The following types can be specified. If this type setting is omitted, intake temperature and humidity information about the system is displayed:                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
| temp                 | Displays temperature information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
| volt                 | Displays voltage information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
| Fan                  | Displays fan speed information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
| power                | Displays power consumption information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
| air                  | Displays the volume of air exhausted from the server.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
| EXTENDED DESCRIPTION | The result displayed by using the <code>power</code> and <code>air</code> operands does not include the information of external I/O expansion unit and the peripheral I/O devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |
| EXAMPLES             | <p><b>EXAMPLE 1</b> Displays the intake temperature and humidity of the system on the M8000/M9000 servers.</p> <pre>XSCF&gt; showenvironment Temperature:30.71C Humidity:90.05%</pre> <p><b>EXAMPLE 2</b> Displays temperature information about the system and each component on the M8000 server.</p> <pre>XSCF&gt; showenvironment temp Temperature:30.71C CMU#0:30.71C CPUM#0-CHIP#0:30.71C CPUM#1-CHIP#0:30.71C CPUM#2-CHIP#0:30.71C CPUM#3-CHIP#0:30.71C CMU#1:30.71C</pre>                                                                                                                                                                                  |             |                                                                                                                                                                                                                 |      |                                                                                                                   |      |                               |     |                                 |       |                                         |     |                                                       |

```

CPUM#0-CHIP#0:30.71C
CPUM#1-CHIP#0:30.71C
CPUM#2-CHIP#0:30.71C
CPUM#3-CHIP#0:30.71C
CMU#2:30.71C
CPUM#0-CHIP#0:30.71C
CPUM#1-CHIP#0:30.71C
CPUM#2-CHIP#0:30.71C
CPUM#3-CHIP#0:30.71C
CMU#3:30.71C
CPUM#0-CHIP#0:30.71C
CPUM#1-CHIP#0:30.71C
CPUM#2-CHIP#0:30.71C
CPUM#3-CHIP#0:30.71C

```

**EXAMPLE 3** Displays voltage information about each component on the M4000 server.

```

XSCF> showenvironment volt
MBU_A
 1.0V Power Supply Group:1.010V
 1.8V Power Supply Group:1.700V
CPUM#0-CHIP#0
 1.0V Power Supply Group:1.000V
CPUM#1-CHIP#0
 1.0V Power Supply Group:1.000V
MEMB#0
 1.2V Power Supply Group:1.200V
 1.8V Power Supply Group:1.700V
 2.5V Power Supply Group:2.500V
MEMB#1
 1.2V Power Supply Group:1.200V
 1.8V Power Supply Group:1.700V
 2.5V Power Supply Group:2.500V
MEMB#2
 1.2V Power Supply Group:1.200V
 1.8V Power Supply Group:1.700V
 2.5V Power Supply Group:2.500V
MEMB#3
 1.2V Power Supply Group:1.200V
 1.8V Power Supply Group:1.700V
 2.5V Power Supply Group:2.500V
IOU#0
 1.0V Power Supply Group:1.020V
 1.2V Power Supply Group:1.180V
 1.5V Power Supply Group:1.500V

```

```

1.8V Power Supply Group:1.850V
2.5V Power Supply Group:2.510V
3.3V Power Supply Group:3.300V
5.0V Power Supply Group:5.000V
12V Power Supply Group:12.000V
-12V Power Supply Group:-12.000V
FANBP
3.3V Power Supply Group:3.300V
5.0V Power Supply Group:5.010V
12V Power Supply Group:12.020V
-12V Power Supply Group:-12.030V

```

**EXAMPLE 4** Displays the fan speed information on the M5000 server.

```

XSCF> showenvironment Fan
FAN_A#0:Low speed
 FAN_A#0: 4101rpm
FAN_A#1:Low speed
 FAN_A#1: 4101rpm
FAN_A#2:Low speed
 FAN_A#2: 4177rpm
FAN_A#3:Low speed
 FAN_A#3: 4101rpm
PSU#0
 PSU#0:Low speed
 PSU#0: 3879rpm
 PSU#0: 3835rpm
PSU#1
 PSU#1:Low speed
 PSU#1: 3924rpm
 PSU#1: 3970rpm
PSU#2
 PSU#2:Low speed
 PSU#2: 4218rpm
 PSU#2: 4066rpm
PSU#3
 PSU#3:Low speed
 PSU#3: 3835rpm
 PSU#3: 3970rpm

```

**EXAMPLE 5** Displays the fan speed information on the M3000 server.

```

XSCF> showenvironment Fan
FAN_A#0:Low speed (level-4)
 FAN_A#0: 4134rpm
FAN_A#1:Low speed (level-4)

```

```
FAN_A#1: 4212rpm
PSU#0
PSU#0:Low speed (level-4)
PSU#0: 6436rpm
PSU#1
PSU#1:Low speed (level-4)
PSU#1: 6352rpm
```

**EXAMPLE 6** Displays power consumption information on the M3000 server (in case of AC power supply).

```
XSCF> showenvironment power
Permitted AC power consumption:470W
Actual AC power consumption:450W
```

**EXAMPLE 7** Displays power consumption information on the M3000 server (in case of DC power supply).

```
XSCF> showenvironment power
Permitted DC power consumption:470W
Actual DC power consumption:450W
```

**EXAMPLE 8** Displays the volume of air exhausted from the M3000 server.

```
XSCF> showenvironment air
Air Flow:63CMH
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

showenvironment(8)





|             |                                                                                                                                                    |                                                                                                            |                    |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------|
| NAME        | showfru - display the hardware settings of specified device                                                                                        |                                                                                                            |                    |
| SYNOPSIS    | <b>showfru</b> <i>device location</i>                                                                                                              |                                                                                                            |                    |
|             | <b>showfru</b> -a <i>device</i>                                                                                                                    |                                                                                                            |                    |
|             | <b>showfru</b> -h                                                                                                                                  |                                                                                                            |                    |
| DESCRIPTION | The showfru(8) command displays the hardware settings of specified device by the setupfru(8) command.                                              |                                                                                                            |                    |
|             | The command can display the settings of the specified device or of all devices. Only the physical system board (PSB) can be specified as a device. |                                                                                                            |                    |
|             | The following settings are displayed:                                                                                                              |                                                                                                            |                    |
|             | Device                                                                                                                                             | Specified device name. Only sb is displayed.                                                               |                    |
|             | Location                                                                                                                                           | Device location. If the <i>device</i> is "sb", the indicated location is an integer ranging from 00 to 15. |                    |
|             | XSB Mode                                                                                                                                           | XSB mode set for the PSB. One of the following values is displayed:                                        |                    |
|             |                                                                                                                                                    | Uni                                                                                                        | Uni-XSB            |
|             |                                                                                                                                                    | Quad                                                                                                       | Quad-XSB           |
|             | Memory Mirror Mode                                                                                                                                 | Memory mirror mode set for the PSB. One of the following values is displayed:                              |                    |
|             |                                                                                                                                                    | yes                                                                                                        | Memory mirror mode |
| Privileges  | no                                                                                                                                                 |                                                                                                            |                    |
|             | Memory no-mirror mode                                                                                                                              |                                                                                                            |                    |
| Privileges  | You must have platadm or fieldeng privileges to run this command.                                                                                  |                                                                                                            |                    |
|             | Refer to setprivileges(8) for more information.                                                                                                    |                                                                                                            |                    |
| OPTIONS     | The following options are supported.                                                                                                               |                                                                                                            |                    |
|             | -a                                                                                                                                                 | Displays the settings of all devices.                                                                      |                    |
|             | -h                                                                                                                                                 | Displays usage statement. When used with other options or operands, an error occurs.                       |                    |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                                                                                         |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------|----------|-----------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------|------|----|----|----|-----|-----|----|----|------|----|----|----|-----|----|
| OPERANDS             | <p>The following operands are supported:</p> <table><tr><td><i>device</i></td><td>Specifies the device to display. Currently, only the following device can be specified:</td></tr><tr><td>sb</td><td>Physical system board (PSB)</td></tr><tr><td><i>location</i></td><td>Specifies the location of <i>device</i>. If the <i>device</i> is "sb", an integer ranging from 00 to 15 can be specified.</td></tr></table>       | <i>device</i> | Specifies the device to display. Currently, only the following device can be specified: | sb       | Physical system board (PSB) | <i>location</i> | Specifies the location of <i>device</i> . If the <i>device</i> is "sb", an integer ranging from 00 to 15 can be specified. |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| <i>device</i>        | Specifies the device to display. Currently, only the following device can be specified:                                                                                                                                                                                                                                                                                                                                      |               |                                                                                         |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| sb                   | Physical system board (PSB)                                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                                                         |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| <i>location</i>      | Specifies the location of <i>device</i> . If the <i>device</i> is "sb", an integer ranging from 00 to 15 can be specified.                                                                                                                                                                                                                                                                                                   |               |                                                                                         |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| EXTENDED DESCRIPTION | <p>The setupfru(8) command makes hardware settings for a device.</p>                                                                                                                                                                                                                                                                                                                                                         |               |                                                                                         |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| EXAMPLES             | <p><b>EXAMPLE 1</b> Displays the settings of all PSBs.</p> <pre>XSCF&gt; showfru -a sb</pre> <table><tr><td>Device</td><td>Location</td><td>XSB Mode</td><td>Memory Mirror Mode</td></tr><tr><td>sb</td><td>00</td><td>Quad</td><td>no</td></tr><tr><td>sb</td><td>01</td><td>Uni</td><td>yes</td></tr><tr><td>sb</td><td>02</td><td>Quad</td><td>no</td></tr><tr><td>sb</td><td>03</td><td>Uni</td><td>no</td></tr></table> | Device        | Location                                                                                | XSB Mode | Memory Mirror Mode          | sb              | 00                                                                                                                         | Quad | no | sb | 01 | Uni | yes | sb | 02 | Quad | no | sb | 03 | Uni | no |
| Device               | Location                                                                                                                                                                                                                                                                                                                                                                                                                     | XSB Mode      | Memory Mirror Mode                                                                      |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| sb                   | 00                                                                                                                                                                                                                                                                                                                                                                                                                           | Quad          | no                                                                                      |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| sb                   | 01                                                                                                                                                                                                                                                                                                                                                                                                                           | Uni           | yes                                                                                     |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| sb                   | 02                                                                                                                                                                                                                                                                                                                                                                                                                           | Quad          | no                                                                                      |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| sb                   | 03                                                                                                                                                                                                                                                                                                                                                                                                                           | Uni           | no                                                                                      |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| EXIT STATUS          | <p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>&gt;0</td><td>An error occurred.</td></tr></table>                                                                                                                                                                                                                                                           | 0             | Successful completion.                                                                  | >0       | An error occurred.          |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| 0                    | Successful completion.                                                                                                                                                                                                                                                                                                                                                                                                       |               |                                                                                         |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| >0                   | An error occurred.                                                                                                                                                                                                                                                                                                                                                                                                           |               |                                                                                         |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |
| SEE ALSO             | <p><b>addboard</b>(8), <b>deleteboard</b>(8), <b>moveboard</b>(8), <b>setdcl</b>(8), <b>setupfru</b>(8), <b>showboards</b>(8), <b>showdcl</b>(8), <b>showdevices</b>(8)</p>                                                                                                                                                                                                                                                  |               |                                                                                         |          |                             |                 |                                                                                                                            |      |    |    |    |     |     |    |    |      |    |    |    |     |    |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                        |    |                                                                                                                                                                                                                                                                                                               |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|----|------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showhardconf - display information about field replaceable unit (FRU) installed in the system                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                                                                      |    |                        |    |                                                                                                                                                                                                                                                                                                               |
| SYNOPSIS    | <b>showhardconf</b> [-u] [-M]<br><b>showhardconf</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                                                                                      |    |                        |    |                                                                                                                                                                                                                                                                                                               |
| DESCRIPTION | <p>showhardconf(8) command displays information about each FRU.</p> <p>The following information is displayed:</p> <ul style="list-style-type: none"><li>■ Current configuration and status</li><li>■ Number of installed FRUs</li><li>■ Domain information</li><li>■ External I/O Expansion Unit information</li><li>■ PCI card information</li></ul>                                                                                                                                                                                                                     |    |                                                                                      |    |                        |    |                                                                                                                                                                                                                                                                                                               |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, fieldeng</p> <p>Can run this command for all domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can run this command only for your accessible domains.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                |    |                                                                                      |    |                        |    |                                                                                                                                                                                                                                                                                                               |
| OPTIONS     | <p>The following options are supported:.</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-M</td><td>Displays text by page.</td></tr><tr><td>-u</td><td>Displays the number of FRUs installed in each unit. In addition, for CPU modules, the operating frequencies are displayed. For memory, the DIMM type and size are displayed. If this option is omitted, the current configuration and status information regarding FRUs and domain information are displayed.</td></tr></table> | -h | Displays usage statement. When used with other options or operands, an error occurs. | -M | Displays text by page. | -u | Displays the number of FRUs installed in each unit. In addition, for CPU modules, the operating frequencies are displayed. For memory, the DIMM type and size are displayed. If this option is omitted, the current configuration and status information regarding FRUs and domain information are displayed. |
| -h          | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                                                                                      |    |                        |    |                                                                                                                                                                                                                                                                                                               |
| -M          | Displays text by page.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                      |    |                        |    |                                                                                                                                                                                                                                                                                                               |
| -u          | Displays the number of FRUs installed in each unit. In addition, for CPU modules, the operating frequencies are displayed. For memory, the DIMM type and size are displayed. If this option is omitted, the current configuration and status information regarding FRUs and domain information are displayed.                                                                                                                                                                                                                                                              |    |                                                                                      |    |                        |    |                                                                                                                                                                                                                                                                                                               |

EXTENDED  
DESCRIPTION

- When the configuration and status information regarding FRUs and domain information are displayed, for any failed or degraded unit, an asterisk (\*) indicating an abnormal unit is displayed along with any of the following states:

| Status       | Description                                                                                                                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Faulted      | The component is faulty and is not operating                                                                                                                                                |
| Degraded     | The component is operating. However, either an error has been detected or the component is faulty. As a result, the component might be operating with reduced functionality or performance. |
| Deconfigured | As a result of another component's faulted or degraded status, the component is not operating. (The component itself is not faulted or degraded.)                                           |
| Maintenance  | The component is under maintenance. A deletefru(8), replacefru(8), or addfru(8) operation is currently underway                                                                             |
| Normal       | It is operating normally.                                                                                                                                                                   |

- On the Type field of the memories, the number indicates the DIMM size and the alphabet, A or B, indicates the DIMM rank.

| Example  | Description  |
|----------|--------------|
| Type: 1A | 1 GB, rank 1 |
| Type: 2A | 2 GB, rank 1 |
| Type: 2B | 2 GB, rank 2 |

EXAMPLES

**EXAMPLE 1** Displays the information of the FRUs in the M5000 server.

```
XSCF> showhardconf
SPARC Enterprise M5000;
+ Serial:BCF07500B6; Operator_Panel_Switch:Locked;
+ Power_Supply_System:Dual; SCF-ID:XSCF#0;
+ System_Power:On; System_Phase:Cabinet Power On;
Domain#0 Domain_Status:Initialization Phase;
Domain#1 Domain_Status:Initialization Phase;

MBU_B Status:Normal; Ver:0201h; Serial:BC07490823 ;
+ FRU-Part-Number:CF00541-4360 01 /541-4360-01 ;
+ Memory_Size:64 GB;
+ Type:2;
CPUM#0-CHIP#0 Status:Normal; Ver:0601h; Serial:PP074804E9 ;
+ FRU-Part-Number:CA06761-D205 A0 /371-4932-01 ;
+ Freq:2.660 GHz; Type:48;
+ Core:4; Strand:2;
```

```

:
CPUM#3-CHIP#1 Status:Normal; Ver:0601h; Serial:PP074804E9 ;
+ FRU-Part-Number:CA06761-D205 A0 /371-4932-01 ;
+ Freq:2.660 GHz; Type:48;
+ Core:4; Strand:2;
MEMB#0 Status:Normal; Ver:0101h; Serial:BF09061G0E ;
+ FRU-Part-Number:CF00541-0545 06 /541-0545-06 ;
MEM#0A Status:Normal;
+ Code:c100000000000005372T128000HR3.7A 356d-0d016912;
+ Type:1A; Size:1 GB;
:
MEM#3B Status:Normal;
+ Code:c100000000000004572T128000HR3.7A 252b-04123424;
+ Type:1A; Size:1 GB;
:
MEMB#7 Status:Normal; Ver:0101h; Serial:BF09061GBA ;
+ FRU-Part-Number:CF00541-0545 06 /541-0545-06 ;
MEM#0A Status:Normal;
+ Code:2cffffffffffffffff0818HTF12872Y-53EB3 0300-
d504600c;
+ Type:1A; Size:1 GB;
:
MEM#3B Status:Normal;
+ Code:7f7ffe00000000004aEBE10RD4AGFA-5C-E 3020-
2229c19c;
+ Type:1A; Size:1 GB;
DDC_A#0 Status:Normal;
DDC_A#1 Status:Normal;
DDC_A#2 Status:Normal;
DDC_A#3 Status:Normal;
DDC_B#0 Status:Normal;
DDC_B#1 Status:Normal;
IOU#0 Status:Normal; Ver:0201h; Serial:BF07486TEU ;
+ FRU-Part-Number:CF00541-4361 01 /541-4361-01 ;
+ Type:1;
DDC_A#0 Status:Normal;
DDCR Status:Normal;
DDC_B#0 Status:Normal;
IOU#1 Status:Normal; Ver:0201h; Serial:BF073226HP ;
+ FRU-Part-Number:CF00541-4361 01 /541-4361-01 ;
+ Type:1;
DDC_A#0 Status:Normal;
DDCR Status:Normal;
DDC_B#0 Status:Normal;
XSCFU Status:Normal,Active; Ver:0101h; Serial:BF07435D98 ;

```

```

:
CPUM#3-CHIP#1 Status:Normal; Ver:0601h; Serial:PP074804E9 ;
+ FRU-Part-Number:CA06761-D205 A0 /371-4932-01 ;
+ Freq:2.660 GHz; Type:48;
+ Core:4; Strand:2;
MEMB#0 Status:Normal; Ver:0101h; Serial:BF09061G0E ;
+ FRU-Part-Number:CF00541-0545 06 /541-0545-06 ;
MEM#0A Status:Normal;
+ Code:c1000000000000005372T128000HR3.7A 356d-0d016912;
+ Type:1A; Size:1 GB;
:
MEM#3B Status:Normal;
+ Code:c1000000000000004572T128000HR3.7A 252b-04123424;
+ Type:1A; Size:1 GB;
:
MEMB#7 Status:Normal; Ver:0101h; Serial:BF09061GBA ;
+ FRU-Part-Number:CF00541-0545 06 /541-0545-06 ;
MEM#0A Status:Normal;
+ Code:2cfffffffffffffffff0818HTF12872Y-53EB3 0300-
d504600c;
+ Type:1A; Size:1 GB;
:
MEM#3B Status:Normal;
+ Code:7f7ffe00000000004aEBE10RD4AGFA-5C-E 3020-
2229c19c;
+ Type:1A; Size:1 GB;
DDC_A#0 Status:Normal;
DDC_A#1 Status:Normal;
DDC_A#2 Status:Normal;
DDC_A#3 Status:Normal;
DDC_B#0 Status:Normal;
DDC_B#1 Status:Normal;
IOU#0 Status:Normal; Ver:0201h; Serial:BF07486TEU ;
+ FRU-Part-Number:CF00541-4361 01 /541-4361-01 ;
+ Type:1;
DDC_A#0 Status:Normal;
DDCR Status:Normal;
DDC_B#0 Status:Normal;
IOU#1 Status:Normal; Ver:0201h; Serial:BF073226HP ;
+ FRU-Part-Number:CF00541-4361 01 /541-4361-01 ;
+ Type:1;
DDC_A#0 Status:Normal;
DDCR Status:Normal;
DDC_B#0 Status:Normal;
XSCFU Status:Normal,Active; Ver:0101h; Serial:BF07435D98 ;

```

```

+ FRU-Part-Number:CF00541-0481 04 /541-0481-04 ;
OPNL Status:Normal; Ver:0101h; Serial:BF0747690D ;
+ FRU-Part-Number:CF00541-0850 06 /541-0850-06 ;
PSU#0 Status:Normal; Serial:0017527-0738063762;
+ FRU-Part-Number:CF00300-1898 0350 /300-1898-03-50;
+ Power_Status:Off; AC:200 V;
:
PSU#3 Status:Normal; Serial:0017527-0738063767;
+ FRU-Part-Number:CF00300-1898 0350 /300-1898-03-50;
+ Power_Status:Input fail; AC: - ;
FANBP_C Status:Normal; Ver:0501h; Serial:FF2#24 ;
+ FRU-Part-Number:CF00541-3099 01 /541-3099-01 ;
FAN_A#0 Status:Normal;
FAN_A#1 Status:Normal;
FAN_A#2 Status:Normal;
FAN_A#3 Status:Normal;

```

**EXAMPLE 2** Displays the number of installed FRUs in the M5000 server.

```
XSCF> showhardconf -u
```

```
SPARC Enterprise M5000; Memory_Size:64 GB;
```

| +-----+-----+       |          |
|---------------------|----------|
| FRU                 | Quantity |
| +-----+-----+       |          |
| MBU_B               | 1        |
| CPUM                | 4        |
| Type:2;             | ( 1)     |
| Freq:2.660 GHz;     | ( 8)     |
| MEMB                | 8        |
| MEM                 | 64       |
| Type:1A; Size:1 GB; | ( 64)    |
| DDC_A               | 4        |
| DDC_B               | 2        |
| IOU                 | 2        |
| Type:1;             | ( 2)     |
| DDC_A               | 2        |
| DDCR                | 2        |
| DDC_B               | 2        |
| IOBOX               | 1        |
| IOB                 | 2        |
| PSU                 | 2        |
| XSCFU               | 1        |
| OPNL                | 1        |
| PSU                 | 4        |

|               |   |  |
|---------------|---|--|
| FANBP_C       | 1 |  |
| FAN_A         | 4 |  |
| +-----+-----+ |   |  |

**EXAMPLE 3** Displays the information of the FRUs in the M9000 server.

```
XSCF> showhardconf
SPARC Enterprise M9000;
+ Serial:PA30601004; Operator_Panel_Switch:Locked;
+ Power_Supply_System:Single-1Phase; Ex:Single-1Phase; SCF-ID:XSCF#0;
+ System_Power:On; System_Phase:Cabinet Power On;
Domain#0 Domain_Status:Running;

CMU#0 Status:Normal; Ver:0101h; Serial:PP0616B579 ;
+ FRU-Part-Number:CA06629-D001 A4 ;
+ Memory_Size:128 GB;
+ Type:A
CPUM#0-CHIP#0 Status:Normal; Ver:0101h; Serial:PP091505ZY ;
+ FRU-Part-Number:CA06620-D021 A3 ;
+ Freq:2.280 GHz; Type:16;
+ Core:2; Strand:2;
CPUM#1-CHIP#0 Status:Normal; Ver:0101h; Serial:PP091505ZW ;
+ FRU-Part-Number:CA06620-D021 A3 ;
+ Freq:2.280 GHz; Type:16;
+ Core:2; Strand:2;
CPUM#2-CHIP#0 Status:Normal; Ver:0101h; Serial:PP0915060H ;
+ FRU-Part-Number:CA06620-D021 A3 ;
+ Freq:2.280 GHz; Type:16;
+ Core:2; Strand:2;
CPUM#3-CHIP#0 Status:Normal; Ver:0101h; Serial:PP09150603 ;
+ FRU-Part-Number:CA06620-D021 A3 ;
+ Freq:2.280 GHz; Type:16;
+ Core:2; Strand:2;
MEM#00A Status:Normal;
+ Code:7f7ffe00000000004aEBE41RE4ABHA-5C-E 3020-22211d88;
+ Type:4B; Size:4 GB;
MEM#00B Status:Normal;
+ Code:7f7ffe00000000004aEBE41RE4ABHA-5C-E 3020-2a002a55;
+ Type:4B; Size:4 GB;
:
MEM#33A Status:Normal;
+ Code:ce000000000000001M3 93T5168AZ0-CD5 3041-741a8ea1;
+ Type:4B; Size:4 GB;
MEM#33B Status:Normal;
+ Code:ce000000000000001M3 93T5168AZ0-CD5 3041-741a8ed3;
```



```

+ Type:4B; Size:4 GB;
:
CMU#2 Status:Normal; Ver:4201h; Serial:PP0618K472 ;
+ FRU-Part-Number:CA06620-D003 A0 /371-4617-01 ;
+ Memory_Size:32 GB;
+ Type:B
CPUM#0-CHIP#0 Status:Normal; Ver:0901h; Serial:PP0608J517 ;
+ FRU-Part-Number:CA06620-D051 A0 /371-4616-01 ;
+ Freq:2.880 GHz; Type:32;
+ Core:4; Strand:2;
CPUM#1-CHIP#0 Status:Normal; Ver:0901h; Serial:PP0620P552 ;
+ FRU-Part-Number:CA06620-D051 A0 /371-4616-01 ;
+ Freq:2.880 GHz; Type:32;
+ Core:4; Strand:2;
CPUM#2-CHIP#0 Status:Normal; Ver:0901h; Serial:PP0631Q396 ;
+ FRU-Part-Number:CA06620-D051 A0 /371-4616-01 ;
+ Freq:2.880 GHz; Type:32;
+ Core:4; Strand:2;
CPUM#3-CHIP#0 Status:Normal; Ver:0901h; Serial:PP0629H443 ;
+ FRU-Part-Number:CA06620-D051 A0 /371-4616-01 ;
+ Freq:2.880 GHz; Type:32;
+ Core:4; Strand:2;
MEM#00A Status:Normal;
+ Code:7f7ffe00000000004aEBE10RD4AGFA-5C-E 3020-221d6855;
+ Type:1A; Size:1 GB;
MEM#00B Status:Normal;
+ Code:7f7ffe00000000004aEBE10RD4AGFA-5C-E 3020-221fcdb7;
+ Type:1A; Size:1 GB;
:
MEM#33A Status:Normal;
+ Code:7f7ffe00000000004aEBE10RD4AGFA-5C-E 3020-221d678b;
+ Type:1A; Size:1 GB;
MEM#33B Status:Normal;
+ Code:2cffffffffffffffff0818HTF12872Y-53EB3 0300-69aedd7a;
+ Type:1A; Size:1 GB;
CMU#3 Status:Normal; Ver:8301h; Serial:PP0638F192 ;
+ FRU-Part-Number:CA06620-D004 A0 /371-4930-01 ;
+ Memory_Size:64 GB;
+ Type:C
CPUM#0-CHIP#0 Status:Normal; Ver:0a01; Serial:PP0631P606 ;
+ FRU-Part-Number:CA06620-D061 A1 /371-4929-01 ;
+ Freq:3.000 GHz; Type:48;
+ Core:4; Strand:2;
CPUM#1-CHIP#0 Status:Normal; Ver:a01h; Serial:PP0630M355 ;
+ FRU-Part-Number:CA06620-D061 A1 /371-4929-01 ;

```

```

+ Freq:3.000 GHz; Type:48;
+ Core:4; Strand:2;
CPUM#2-CHIP#0 Status:Normal; Ver:0a01h; Serial:PP0628D036 ;
+ FRU-Part-Number:CA06620-D061 A1 /371-4929-01 ;
+ Freq:3.000 GHz; Type:48;
+ Core:4; Strand:2;
CPUM#3-CHIP#0 Status:Normal; Ver:0a01h; Serial:PP0630M365 ;
+ FRU-Part-Number:CA06620-D061 A1 /371-4929-01 ;
+ Freq:3.000 GHz; Type:48;
+ Core:4; Strand:2;
MEM#00A Status:Normal;
+ Code:7f7ffe00000000004aEBE10RD4AGFA-5C-E 3020-221d6855;
+ Type:1A; Size:1 GB;
MEM#00B Status:Normal;
+ Code:7f7ffe00000000004aEBE10RD4AGFA-5C-E 3020-221fcd7b;
+ Type:1A; Size:1 GB;
:
MEM#33A Status:Normal;
+ Code:7f7ffe00000000004aEBE10RD4AGFA-5C-E 3020-221d678b;
+ Type:1A; Size:1 GB;
MEM#33B Status:Normal;
+ Code:2cffffffffffffffff0818HTF12872Y-53EB3 0300-69aedd7a;
+ Type:1A; Size:1 GB;
:
IOU#0 Status:Normal; Ver:0101h; Serial:PP072102UN ;
+ FRU-Part-Number:CA06620-D102 B1 /371-2217-02 ;
+ Type:A;
PCI#0 Name_Property:pci; Card_Type:IOUA;
+ Serial:PP0611T826 ;
+ FRU-Part-Number:CA21126-B20X 002AB
PCI#1 Status:Normal; Name_Property:LSILogic,sas; Card_Type:Other;
+ Serial:0000004; Type:F20;
+ FRU-Part-Number:5111500-01;
IOU#1 Status:Normal; Ver:0101h; Serial:PP072102UM ;
+ FRU-Part-Number:CA06620-D102 B1 /371-2217-02 ;
+ Type:A;
PCI#0 Name_Property:pci; Card_Type:IOUA;
+ Serial:PP0611T825 ;
+ FRU-Part-Number:CA21126-B20X 002AB
IOU#2 Status:Normal; Ver:4201h; Serial:PP0727053S ;
+ FRU-Part-Number:CA06620-D103 A0 /371-4931-01 ;
+ Type:B;
PCI#4 Name_Property:pci; Card_Type:IOUA;
+ Serial:PP0611T823 ;
+ FRU-Part-Number:CA21126-B20X 002AB ;

```

```

:
XSCFU_B#0 Status:Normal,Active; Ver:0201h; Serial:PP080600DW ;
+ FRU-Part-Number:CA06620-D342 C0 /371-2228-02 ;
:
XBU_B#0 Status:Normal; Ver:0201h; Serial:PP0641X324 ;
+ FRU-Part-Number:CA06620-D301 A6 ;
:
CLKU_B#0 Status:Normal; Ver:0101h; Serial:PP0542M679 ;
+ FRU-Part-Number:CA06629-D042 A1 ;
:
OPNL#0 Status:Normal; Ver:0101h; Serial:PP06058246 ;
+ FRU-Part-Number:CA06629-D061 A1 ;
PSU#0 Status:Normal; Serial;;
+ FRU-Part-Number:CA01022-0690;
+ Power_Status:On;
:
FANBP_A#0 Status:Normal; Ver:0101h; Serial:PP0607D266 ;
+ FRU-Part-Number:CA21123-B54X 003AC ;
FAN_A#0 Status:Normal; Serial:PA0605B287;
+ FRU-Part-Number:CA06501-D023 A2 /371-2222-00 ;
:
FAN_A#15 Status:Normal; Serial:PA0605B303;
+ FRU-Part-Number:CA06501-D023 A2 /371-2222-00 ;
:
FANBP_B#0 Status:Normal; Ver:0201h; Serial:PP0607D270 ;
+ FRU-Part-Number:CA21123-B55X 003AC ;
FAN_A#4 Status:Normal; Serial:PA0605B297;
+ FRU-Part-Number:CA06501-D023 A2 /371-2222-00 ;
:
FAN_A#9 Status:Normal; Serial:PA0605B300;
+ FRU-Part-Number:CA06501-D023 A2 /371-2222-00 ;
:
SWBP#0 Status:Normal; Ver:0101h; Serial:PP0607E759 ;
+ FRU-Part-Number:CA20394-B16X 001AA ;
MEDBP#0 Status:Normal; Ver:0101h; Serial:PP06058497 ;
+ FRU-Part-Number:CA20394-B17X 002AB ;

```

**EXAMPLE 4** Displays the number of installed FRUs in the M9000 server.

```

XSCF> showhardconf -u
SPARC Enterprise M9000; Memory_Size:240 GB
+-----+-----+
| FRU | Quantity |
+-----+-----+
| CMU | 4 |

```

|                     |       |
|---------------------|-------|
| Type:A;             | ( 2)  |
| Type:B;             | ( 1)  |
| Type:C;             | ( 1)  |
| CPUM                | 16    |
| Freq:2.280 GHz;     | ( 8)  |
| Freq:2.880 GHz;     | ( 8)  |
| MEM                 | 112   |
| Type:1A; Size:1 GB; | ( 48) |
| Type:2B; Size:2 GB; | ( 32) |
| Type:4B; Size:4 GB; | ( 32) |
| IOU                 | 8     |
| Type:A;             | ( 6)  |
| Type:B;             | ( 2)  |
| XSCFU_B             | 2     |
| XBU_B               | 8     |
| CLKU_B              | 2     |
| OPNL                | 1     |
| PSU                 | 15    |
| FANBP_A             | 1     |
| FANBP_B             | 1     |
| FAN_A               | 16    |
| SWBP                | 1     |
| MEDBP               | 1     |
| +-----+-----+       |       |

**EXAMPLE 5**     Displays the information of the FRUs in the M3000 server (in case of AC power supply).

```
XSCF> showhardconf
SPARC Enterprise M3000;
+ Serial:BE80601016; Operator_Panel_Switch:Service;
+ Power_Supply_System:Single; SCF-ID:XSCF#0;
+ System_Power:Off; System_Phase:Cabinet Power Off;
Domain#0 Domain_Status:Powered Off;

MBU_A Status:Normal; Ver:0101h; Serial:7867000269 ;
+ FRU-Part-Number:CF00541-0493 0040 /541-0493-00-40 ;
+ CPU Status:Normal;
+ Freq:2.520 GHz; Type:32;
+ Core:4; Strand:2;
+ Memory_Size:8 GB;
MEM#0A Status:Normal;
+ Code:000000000000000c14572T128000HR3.7A 2b25-20541204;
+ Type:1A; Size:1 GB;
:
```

```

MEM#3B Status:Normal;
+ Code:00000000000000c14572T128000HR3.7A 2b25-21341204;
+ Type:1A; Size:1 GB;
PCI#0 Name_Property:pci; Card_type:Other;
PCI#1 Name_Property:pci; Card_type:Other;
PCI#2 Name_Property:pci; Card_type:Other;
PCI#3 Name_Property:pci; Card_type:Other;
OPNL Status:Normal; Ver:0101h; Serial:7867000076 ;
+ FRU-Part-Number:CF00541-0850 0040 /541-0850-00-40 ;
PSU#0 Status:Normal; Serial:00000000-ASTECB20 ;
+ FRU-Part-Number:CF00300-1898 0002 /300-1898-00-02;
+ Power_Status:Off;
+ Type:AC;
PSU#1 Status:Normal; Serial:00000000-ASTECB17 ;
+ FRU-Part-Number:CF00300-1898 0002 /300-1898-00-02;
+ Power_Status:Off;
+ Type:AC;
FANBP_B Status:Normal; Ver:0101h; Serial:7867000053 ;
+ FRU-Part-Number:CA06629-D051 001AA
FAN_A#0 Status:Normal;
FAN_A#1 Status:Normal;

```

**EXAMPLE 6** Displays the information of the FRUs in the M3000 server (in case of DC power supply).

XSCF> **showhardconf**

SPARC Enterprise M3000;

```

+ Serial:BE80601016; Operator_Panel_Switch:Service;
+ Power_Supply_System:Single; SCF-ID:XSCF#0;
+ System_Power:Off; System_Phase:Cabinet Power Off;
Domain#0 Domain_Status:Powered Off;

```

```

MBU_A Status:Normal; Ver:0101h; Serial:7867000269 ;
+ FRU-Part-Number:CF00541-0493 0040 /541-0493-00-40 ;
+ CPU Status:Normal;
+ Freq:2.750 GHz; Type:32;
+ Core:4; Strand:2;
+ Memory_Size:8 GB;
MEM#0A Status:Normal;
+ Code:00000000000000c14572T128000HR3.7A 2b25-20541204;
+ Type:1A; Size:1 GB;
:
MEM#3B Status:Normal;
+ Code:00000000000000c14572T128000HR3.7A 2b25-21341204;
+ Type:1A; Size:1 GB;

```

```
PCI#0 Name_Property:pci; Card_type:Other;
PCI#1 Name_Property:pci; Card_type:Other;
PCI#2 Name_Property:pci; Card_type:Other;
PCI#3 Name_Property:pci; Card_type:Other;
OPNL Status:Normal; Ver:0101h; Serial:7867000076 ;
+ FRU-Part-Number:CF00541-0850 0040 /541-0850-00-40 ;
PSU#0 Status:Normal; Serial:EA09320015 ;
+ FRU-Part-Number:CA01022-0730 01A /300-2278-01;
+ Power_Status:Off;
+ Type:DC;
PSU#1 Status:Normal; Serial:EA09320016 ;
+ FRU-Part-Number:CA01022-0730 01A /300-2278-01;
+ Power_Status:Off;
+ Type:DC;
FANBP_B Status:Normal; Ver:0101h; Serial:7867000053 ;
+ FRU-Part-Number:CA06629-D051 001AA
FAN_A#0 Status:Normal;
FAN_A#1 Status:Normal;
```

**EXAMPLE 7** Displays the number of installed FRUs in the M3000 server.

```
XSCF> showhardconf -u
SPARC Enterprise M3000; Memory_Size:8 GB;
+-----+-----+
| FRU | Quantity |
+-----+-----+
MBU_A	1
CPU	(1)
Freq:2.520 GHz;	(1)
MEM	8
Type:1A; Size:1 GB;	(8)
OPNL	1
PSU	2
FANBP_B	1
FAN_A	2
+-----+-----+
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|--------|------------------------------------------|
| NAME                 | showhostname - display the current host name for the XSCF unit                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
| SYNOPSIS             | <p><b>showhostname</b> [-a   <i>xscfu</i>]</p> <p><b>showhostname</b> -h</p>                                                                                                                                                                                                                                                                                                                       |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
| DESCRIPTION          | <p>showhostname(8) command displays the current host name for the XSCF unit.</p> <p>The host name is displayed in Fully Qualified Domain Name (FQDN) format.</p>                                                                                                                                                                                                                                   |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
| Privileges           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                      |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
| OPTIONS              | <p>The following options are supported:</p> <table> <tr> <td>-a</td><td>Displays the current host names for all XSCF units. If an XSCF unit name is specified with the -a option, the XSCF unit name is ignored.</td></tr> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> </table>                                             | -a           | Displays the current host names for all XSCF units. If an XSCF unit name is specified with the -a option, the XSCF unit name is ignored.                              | -h     | Displays usage statement. When used with other options or operands, an error occurs. |        |                                          |
| -a                   | Displays the current host names for all XSCF units. If an XSCF unit name is specified with the -a option, the XSCF unit name is ignored.                                                                                                                                                                                                                                                           |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
| -h                   | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
| OPERANDS             | <p>The following operand is supported:</p> <table> <tr> <td><i>xscfu</i></td><td>Specifies the XSCF unit name to be displayed. One of the following values can be specified. If <i>xscfu</i> is specified with the -a option, <i>xscfu</i> is ignored.</td></tr> <tr> <td>xscf#0</td><td>XSCF unit 0</td></tr> <tr> <td>xscf#1</td><td>XSCF unit 1 (In the M8000/M9000 servers)</td></tr> </table> | <i>xscfu</i> | Specifies the XSCF unit name to be displayed. One of the following values can be specified. If <i>xscfu</i> is specified with the -a option, <i>xscfu</i> is ignored. | xscf#0 | XSCF unit 0                                                                          | xscf#1 | XSCF unit 1 (In the M8000/M9000 servers) |
| <i>xscfu</i>         | Specifies the XSCF unit name to be displayed. One of the following values can be specified. If <i>xscfu</i> is specified with the -a option, <i>xscfu</i> is ignored.                                                                                                                                                                                                                              |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
| xscf#0               | XSCF unit 0                                                                                                                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
| xscf#1               | XSCF unit 1 (In the M8000/M9000 servers)                                                                                                                                                                                                                                                                                                                                                           |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"> <li>■ In the M8000/M9000 servers, a defect occurred on standby XSCF unit shows a message.</li> <li>■ The sethostname(8) command sets a host name for an XSCF unit.</li> </ul>                                                                                                                                                                                   |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |
| EXAMPLES             | <p><b>EXAMPLE 1</b> Displays the current host names for all XSCF units.</p> <pre>XSCF&gt; showhostname -a xscf#0: scf0-hostname.example.com xscf#1: scf1-hostname.example.com</pre>                                                                                                                                                                                                                |              |                                                                                                                                                                       |        |                                                                                      |        |                                          |

showhostname(8)

**EXAMPLE 2** Displays the host name for XSCF unit 0.

```
XSCF> showhostname xscf#0
xscf#0: scf0-hostname.example.com
```

**EXIT STATUS** The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO** **sethostname(8)**



|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------|------------|------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----|--------------------------------------------|
| NAME                 | showhttps - display the status of the HTTPS service set for the XSCF network                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| SYNOPSIS             | <b>showhttps</b><br><b>showhttps -h</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| DESCRIPTION          | <p>The showhttps(8) command displays the status of the HTTPS service currently set for the XSCF network.</p> <p>With this command, whether the HTTPS service is operating and the installation status of the information that is necessary for authentication can be checked. If it is installed, the installation date is also displayed.</p> <p>The following states are displayed:</p> <table><tr><td>HTTPS Status</td><td>Indicates whether the HTTPS service is operating</td></tr><tr><td>Server key</td><td>Indicates whether the private key of the web server has been installed</td></tr><tr><td>CA key</td><td>Indicates whether the private key of the certification authority has been installed</td></tr><tr><td>CA cert</td><td>Indicates whether the certificate of the certification authority has been installed</td></tr><tr><td>CSR</td><td>Requests the certificate of the web server</td></tr></table> | HTTPS Status | Indicates whether the HTTPS service is operating | Server key | Indicates whether the private key of the web server has been installed | CA key | Indicates whether the private key of the certification authority has been installed | CA cert | Indicates whether the certificate of the certification authority has been installed | CSR | Requests the certificate of the web server |
| HTTPS Status         | Indicates whether the HTTPS service is operating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| Server key           | Indicates whether the private key of the web server has been installed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| CA key               | Indicates whether the private key of the certification authority has been installed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| CA cert              | Indicates whether the certificate of the certification authority has been installed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| CSR                  | Requests the certificate of the web server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| Privileges           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| OPTIONS              | <p>The following option is supported:</p> <table><tr><td>-h</td><td>Displays usage statement.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -h           | Displays usage statement.                        |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| -h                   | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| EXTENDED DESCRIPTION | The sethttps(8) command make settings for the HTTPS service in the XSCF network.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |
| EXAMPLES             | <p><b>EXAMPLE 1</b> Displays the status of the HTTPS service.</p> <pre>XSCF&gt; showhttps HTTPS status: enabled Server key: installed in Apr 24 12:34:56 JST 2006 CA key: installed in Apr 24 12:00:34 JST 200 CA cert: installed in Apr 24 12:00:34 JST 200 CSR:</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                            |

```
-----BEGIN CERTIFICATE REQUEST-----
MIIBWjCCASsCAQAwgYExCzAJBgNVBAYTAmpqMQ4wDAYDVQQIEwVzdGF0ZTERMA8G
A1UEBxMibG9jYWxpZHkxFTATBgNVBAoTDG9yZ2FuaXphdGlvbjEPMA0GA1UECxMG
b3JnYW5pMQ8wDQYDVQQDEWZjb21tb24xFTAUBgkqhkiG9w0BCQEWB2V1Lm1haWww
gZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBAJ5D57X/k42LciPTWBWzv2GrxaVM
5GEyx3bdBW8/7Wzhnd3uiZ9+ANlvRAuw/YYy7I/pAD+NQJesBcBjuyj9x+IiJl9F
MrI5fR8pOIywVOdbMPCar09rrU45bVeZhTyi+uQOdWLoX/Dhq0fm2BpYuh9WukT5
pTEg+2dABg8UdHmNAgMBAAGgADANBgkqhkiG9w0BAQQFAAOBgQAux1jH3dyB6Xho
PgBuVIakDzIKEPipK9qQfC57YI43uRBGRubu0AHEcLVue5yTu6G5SxHTCq07tV5g
38UHSg5Kqy9QuWHWMri/hxm0kQ4gBpApjNb6F/B+ngBE3j/thGbEuvJb+0wbycvu
5jrhB/ZV9k8X/MbDOxSx/U5nF+Zuyw==
-----END CERTIFICATE REQUEST-----
```

**EXIT STATUS**      The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**      **sethttps (8)**

|             |                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showldap - display the Lightweight Directory Access Protocol (LDAP) configuration for the Service Processor                                                                                                                                                                                                                                                                                              |
| SYNOPSIS    | <p><b>showldap</b></p> <p><b>showldap</b> [-c]</p> <p><b>showldap</b> -h</p>                                                                                                                                                                                                                                                                                                                             |
| DESCRIPTION | showldap(8) displays the Service Processor LDAP configuration. When invoked without options, showldap displays all LDAP configuration except for the certificate chain and the password used when binding to the LDAP server.                                                                                                                                                                            |
| Privileges  | <p>You must have useradm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                          |
| OPTIONS     | <p>The following options are supported:</p> <p>-c                Displays the LDAP server certification chain.</p> <p>-h                Displays usage statement.</p> <p>                  When used with other options or operands, an error occurs.</p>                                                                                                                                                |
| EXAMPLES    | <p><b>EXAMPLE 1</b>    Displaying All LDAP Configuration Data</p> <pre>XSCF&gt; showldap Bind Name: user Base Distinguishing Name: ou=people,dc=company,dc=com LDAP Search Timeout: 60 Bind password: Set LDAP Servers: ldap://company.com:389 CERTS: None</pre> <p><b>EXAMPLE 2</b>    Displaying All LDAP Configuration Data</p> <pre>XSCF&gt; showldap -c There are no certificates configured.</pre> |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                Successful completion.</p> <p>&gt;0               An error occurred.</p>                                                                                                                                                                                                                                                              |
| SEE ALSO    | setldap(8)                                                                                                                                                                                                                                                                                                                                                                                               |

showldap(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showldapssl - show LDAP/SSL configuration and messages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SYNOPSIS    | <p><b>showldapssl</b></p> <p><b>showldapssl</b> cert [-v] [-i <i>n</i>]</p> <p><b>showldapssl</b> log [-M] [-C] [-S <i>start_record_number</i>] [-E <i>end_record_number</i>]</p> <p><b>showldapssl</b> log -f</p> <p><b>showldapssl</b> group administrator [-i <i>n</i>]</p> <p><b>showldapssl</b> group operator [-i <i>n</i>]</p> <p><b>showldapssl</b> group custom [-i <i>n</i>]</p> <p><b>showldapssl</b> userdomain [-i <i>n</i>]</p> <p><b>showldapssl</b> usermap</p> <p><b>showldapssl</b> defaultrole</p> <p><b>showldapssl</b> server [-i <i>n</i>]</p> <p><b>showldapssl</b> [-h]</p>                                                                                                                                                                                                                                                                                              |
| DESCRIPTION | showldapssl(8) displays the LDAP/SSL configuration and diagnostic messages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Privileges  | <p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| OPTIONS     | <p>The following options are supported:</p> <p>-f                Displays diagnostic messages in real time. When this option is used, the command does not terminate. Each diagnostic message is displayed when it is registered. To stop the real-time display, press Ctrl-C.</p> <p>-h                Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-i <i>n</i>            Sets an index marker, value 1 - 5. When executed without -i, or with -i and no value, showldapssl walks sequentially through items 1 through 5. Exceptions: When used without -i, the command showldapssl cert displays the certificate information for the Primary server, and showldapssl server displays the Primary server configuration.</p> <p>-v                Specifies verbose output. Used only with the cert operand to display the full certificate.</p> |

- C Appends to end of output the number of records in the log.
- E Specifies the last record number to display, where end\_record\_number can be any record number in the log. Use -C to obtain the number of records in the log.
- M Displays text by page, like the more(1) command does.
- S Specifies the first record to display, where start\_record\_number can be any record number in the log. Use -C to obtain the number of records in the log.

**OPERANDS**

The following operands are supported:

|                     |                                           |
|---------------------|-------------------------------------------|
| cert                | Display current server certificates.      |
| log                 | Display diagnostic messages.              |
| group administrator | Display current group configurations.     |
| group operator      | Display current group configurations.     |
| group custom        | Display current group configurations.     |
| userdomain          | Display current userdomain settings.      |
| usermap             | Display current user mapping settings.    |
| defaultrole         | Display current defaultrole setting.      |
| server              | Display current LDAP/SSL server settings. |

**EXAMPLES**

**EXAMPLE 1** Displays the current state of LDAP/SSL.

```
XSCF> showldapssl
usermapmode: enabled
state: enabled
strictcertmode: enabled
logdetail: none
timeout: 4
logdetail: none
```

**EXAMPLE 2** Displays certificate information for the Primary server.

```
XSCF> showldapssl cert
Primary Server:
certstatus = certificate present
issuer = C=US, ST=California, L=San Diego, O=aCompany,
OU=System Group, CN=John User serial number = 0 (00000000)
subject = C=US, ST=California, L=San Diego, O=aCompany,
OU=System Group, CN=John User serial number = 0 (00000000)
```

```
valid from = Apr 18 05:38:36 2009 GMT
valid until = Apr 16 05:38:36 2019 GMT
version = 3 (0x02)
```

**EXAMPLE 3** Displays specified diagnostic messages.

```
XSCF> showldapssl log -S 5 -E 10
Thu Sep 2 01:43 2009 (LdapSSL): -error- authentication status: auth-ERROR
Thu Sep 2 01:44 2009 (LdapSSL): -error- authentication status: auth-ERROR
Thu Sep 2 01:47 2009 (LdapSSL): -error- authentication status: auth-ERROR
Thu Sep 2 01:51 2009 (LdapSSL): -error- authentication status: auth-ERROR
Thu Sep 2 01:52 2009 (LdapSSL): -error- authentication status: auth-ERROR
Thu Sep 2 01:55 2009 (LdapSSL): -error- authentication status: auth-ERROR
```

**EXAMPLE 4** Displays configuration for administrator group 3.

```
XSCF> showldapssl group administrator -i 3
Administrator Group 3
name: CN=pSuperAdmin,OU=Groups,DC=sales,DC=company,DC=com
```

**EXAMPLE 5** Displays alternate server 1 setting. A port number of 0 indicates that the default port for LDAP/SSL is used.

```
XSCF> showldapssl server -i 1
Alternate Server 1
address: (none)
port: 0
```

**EXAMPLE 6** Displays the optional user mapping settings.

```
XSCF> showldapssl usermap
attributeInfo: (&(objectclass=person)(uid=<USERNAME>))
binddn: cn=Manager,dc=company,dc=com
bindpw: Set
searchbase: ou=people,dc=company,dc=com
```

**EXIT STATUS** The following exit values are returned:

```
0 Successful completion.
>0 An error occurred.
```

**SEE ALSO** [setldapssl\(8\)](#)

showldapssl(8)





|                             |                                                                                                                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>                 | showlocale - display the current setting for the XSCF locale                                                                                                                                                                                                                 |
| <b>SYNOPSIS</b>             | <b>showlocale</b><br><b>showlocale -h</b>                                                                                                                                                                                                                                    |
| <b>DESCRIPTION</b>          | <p>The showlocale(8) command displays the current setting for the XSCF locale.</p> <p>Either of the following is displayed:</p> <pre>C                English ja_JP.UTF-8      Japanese</pre>                                                                                |
| <b>Privileges</b>           | <p>You must have one of the following privileges to run this command:</p> <pre>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop</pre> <p>Refer to setprivileges(8) for more information.</p>                                                      |
| <b>OPTIONS</b>              | <p>The following option is supported:</p> <pre>-h                Displays usage statement.</pre>                                                                                                                                                                             |
| <b>EXTENDED DESCRIPTION</b> | The setlocale(8) command sets a locale for the XSCF.                                                                                                                                                                                                                         |
| <b>EXAMPLES</b>             | <p><b>EXAMPLE 1</b> Displays the current setting for the XSCF locale (when English is set).</p> <pre>XSCF&gt; showlocale C</pre> <p><b>EXAMPLE 2</b> Displays the current setting for the XSCF locale (when Japanese is set).</p> <pre>XSCF&gt; showlocale ja_JP.UTF-8</pre> |
| <b>EXIT STATUS</b>          | <p>The following exit values are returned:</p> <pre>0                Successful completion. &gt;0              An error occurred.</pre>                                                                                                                                      |
| <b>SEE ALSO</b>             | <b>setlocale (8)</b>                                                                                                                                                                                                                                                         |

showlocale(8)



|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |                                                                                                           |          |                                                  |    |                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------|----|--------------------------------------------------------|
| <b>NAME</b>                 | showlocator - display the state of the CHECK LED on the operator panel                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>SYNOPSIS</b>             | <b>showlocator</b><br><b>showlocator -h</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>DESCRIPTION</b>          | <p>showlocator(8) command displays the blink state of the CHECK LED on the operator panel.</p> <p>The one of the following state is displayed:</p> <table> <tr> <td>Off</td><td>Indicates normal operation, which means either the circuit breaker is off or power is not being supplied.</td></tr> <tr> <td>Blinking</td><td>Indicates that the unit is a maintenance target.</td></tr> <tr> <td>On</td><td>Indicates that an error was detected in the main unit.</td></tr> </table> | Off | Indicates normal operation, which means either the circuit breaker is off or power is not being supplied. | Blinking | Indicates that the unit is a maintenance target. | On | Indicates that an error was detected in the main unit. |
| Off                         | Indicates normal operation, which means either the circuit breaker is off or power is not being supplied.                                                                                                                                                                                                                                                                                                                                                                              |     |                                                                                                           |          |                                                  |    |                                                        |
| Blinking                    | Indicates that the unit is a maintenance target.                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                                                           |          |                                                  |    |                                                        |
| On                          | Indicates that an error was detected in the main unit.                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>Privileges</b>           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                             |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>OPTIONS</b>              | <p>The following option is supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                     | -h  | Displays usage statement.                                                                                 |          |                                                  |    |                                                        |
| -h                          | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>EXTENDED DESCRIPTION</b> | The setlocator(8) command can be used to specify the blink state of the CHECK LED.                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>EXAMPLES</b>             | <p><b>EXAMPLE 1</b> Displays the CHECK LED state.</p> <pre>XSCF&gt; showlocator Locator LED status:Blinking</pre>                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>EXIT STATUS</b>          | <p>The following exit values are returned:</p> <table> <tr> <td>0</td><td>Successful completion.</td></tr> <tr> <td>&gt;0</td><td>An error occurred.</td></tr> </table>                                                                                                                                                                                                                                                                                                                | 0   | Successful completion.                                                                                    | >0       | An error occurred.                               |    |                                                        |
| 0                           | Successful completion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                                                                                           |          |                                                  |    |                                                        |
| >0                          | An error occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>SEE ALSO</b>             | <b>setlocator</b> (8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                                                                           |          |                                                  |    |                                                        |

showlocator(8)



|                      |                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showloginlockout - display the account lockout setting                                                                                                                                                                                                                                                                             |
| SYNOPSIS             | <b>showloginlockout</b><br><b>showloginlockout</b> -h                                                                                                                                                                                                                                                                              |
| DESCRIPTION          | The showloginlockout(8) command displays the amount of time, in minutes, that a user is prevented from logging in after three failed attempts.                                                                                                                                                                                     |
| Privileges           | You must have useradm privileges to run this command.<br><br>Refer to setprivileges(8) for more information.                                                                                                                                                                                                                       |
| OPTIONS              | The following option is supported:<br><br>-h                      Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                             |
| EXTENDED DESCRIPTION | A user is allowed three consecutive attempts to login. After the third failed attempt the system prevents further attempts for the amount of time determined by the setloginlockout(8) command. showloginlockout displays that amount of time in minutes.<br><br>After the set amount of time has elapsed, the user may try again. |
| EXAMPLES             | <b>EXAMPLE 1</b> Display The Lockout time<br>XSCF> <b>showloginlockout</b><br>90 minutes                                                                                                                                                                                                                                           |
| EXIT STATUS          | The following exit values are returned:<br><br>0                      Successful completion.<br><br>>0                    An error occurred.                                                                                                                                                                                       |
| SEE ALSO             | <b>setloginlockout</b> (8)                                                                                                                                                                                                                                                                                                         |

showloginlockout(8)



|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                                                                                                                                                                                                    |            |                                                                                                                                 |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------|
| NAME                             | showlogs - display the specified log                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                                                                                                                                                                                                    |            |                                                                                                                                 |
| SYNOPSIS                         | <p><b>showlogs</b> [-t <i>time</i> [-T <i>time</i>]   -p <i>timestamp</i>] [-v   -V   -S] [-r] [-M] error</p> <p><b>showlogs</b> [-t <i>time</i> [-T <i>time</i>]   -p <i>timestamp</i>] [-v] [-r] [-M] event</p> <p><b>showlogs</b> [-t <i>time</i> [-T <i>time</i>]] [-r] [-M] {power   env}</p> <p><b>showlogs</b> [-r] [-M] monitor</p> <p><b>showlogs</b> -d <i>domain_id</i> [-t <i>time</i> [-T <i>time</i>]] [-r] [-M] {console   ipl   panic}</p> <p><b>showlogs</b> -h</p>                                                                                                                                                                                                                                         |                                  |                                                                                                                                                                                                                    |            |                                                                                                                                 |
| DESCRIPTION                      | <p>The showlogs(8) command displays the specified log.</p> <p>Log data is displayed in the order of timestamps, starting from the oldest data by default. Depending on the target for the log collection, the following logs can be specified:</p> <table> <tr> <td>For Field Replaceable Unit (FRU)</td><td> <ul style="list-style-type: none"> <li>• Error log (sometimes includes scan log)</li> <li>• Power log</li> <li>• Event log</li> <li>• Temperature and humidity record</li> <li>• Monitoring message log</li> </ul> </td></tr> <tr> <td>For domain</td><td> <ul style="list-style-type: none"> <li>• Console message log</li> <li>• Panic message log</li> <li>• IPL message log</li> </ul> </td></tr> </table> | For Field Replaceable Unit (FRU) | <ul style="list-style-type: none"> <li>• Error log (sometimes includes scan log)</li> <li>• Power log</li> <li>• Event log</li> <li>• Temperature and humidity record</li> <li>• Monitoring message log</li> </ul> | For domain | <ul style="list-style-type: none"> <li>• Console message log</li> <li>• Panic message log</li> <li>• IPL message log</li> </ul> |
| For Field Replaceable Unit (FRU) | <ul style="list-style-type: none"> <li>• Error log (sometimes includes scan log)</li> <li>• Power log</li> <li>• Event log</li> <li>• Temperature and humidity record</li> <li>• Monitoring message log</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                                                                                    |            |                                                                                                                                 |
| For domain                       | <ul style="list-style-type: none"> <li>• Console message log</li> <li>• Panic message log</li> <li>• IPL message log</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                                                                                                                                                                                                    |            |                                                                                                                                 |
| Privileges                       | <p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none"> <li>■ Error log, Event log, Temperature and humidity record, and Monitor message log:<br/>platadm, platop, fieldeng</li> <li>■ Power log:<br/>platadm, platop, domainadm, domainmgr, fieldeng</li> <li>■ Scan log:<br/>fieldeng</li> <li>■ Console message log, Panic message log, and IPL message log:<br/>platadm, platop, domainadm, domainmgr, domainop, fieldeng</li> </ul> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                         |                                  |                                                                                                                                                                                                                    |            |                                                                                                                                 |

**OPTIONS**

The following options are supported:

- d *domain\_id*      Specifies the ID of a domain to be displayed. This option can be specified for domain specific log. *domain\_id* can be 0–23 depending on the system configuration.
- h                    Displays usage statement. When used with other options or operands, an error occurs.
- M                    Displays text by page.
- p *timestamp*      Specifies a *timestamp* in a log when one log is to be displayed. This option can be specified for an error log or event log.  
  
*timestamp* is specified in one of the following formats:  
  
*yyyy-mm-dd,hh:mm:ss*  
                       The *timestamp* is specified in the 'year-month-day, hour:minute:second' format.  
  
*mm/dd/yy,hh:mm:ss*  
                       The *timestamp* is specified in the 'month/day/year, hour:minute:second' format.  
  
*Monddhh:mm:ssyyyy*  
                       The *timestamp* is specified in the 'month-name, day, hour:minute:second, year' format.
- r                    Displays a log in the order of timestamps, starting from the latest timestamp. By default, the display of log data in the order of timestamps starts from the oldest data.
- S                    Displays a scan log attached to an error log. Only a user having the `fieldeng` privilege can specify this operand. This cannot be specified together with the `-v` option or `-V` option.



`-t time`

Specifies the start date and time of the display range for log data. It is specified in one of the following formats:

*yyyy-mm-dd,hh:mm*

The *timestamp* is specified in the '*year-month-day, hour:minute*' format.

*mm/dd/yy,hh:mm*

The *timestamp* is specified in the '*month/day/year, hour:minute*' format.

*Monddhh:mmyyyy*

The *timestamp* is specified in the '*month-name, day, hour:minute, year*' format.

*yyyy-mm-dd,hh:mm:ss*

The *timestamp* is specified in the '*year-month-day, hour:minute:second*' format.

*mm/dd/yy,hh:mm:ss*

The *timestamp* is specified in the '*month/day/year, hour:minute:second*' format.

*Monddhh:mm:ssyyyy*

The *timestamp* is specified in the '*month-name, day, hour:minute:second, year*' format.

Even if the `-r` option is specified together with this option, the specified `-t` and `-T` options are not reversed. The `-t` option cannot be used for the monitoring message log.

- T *time*** Specifies the end date and time of the display range for log data. It is specified in one of the following formats:
- yyyy-mm-dd,hh:mm*  
The *timestamp* is specified in the '*year-month-day, hour:minute*' format.
- mm/dd/yy,hh:mm*  
The *timestamp* is specified in the '*month/day/year, hour:minute*' format.
- Monddhh:mmyyyy*  
The *timestamp* is specified in the '*month-name, day, hour:minute, year*' format.
- yyyy-mm-dd,hh:mm:ss*  
The *timestamp* is specified in the '*year-month-day, hour:minute:second*' format.
- mm/dd/yy,hh:mm:ss*  
The *timestamp* is specified in the '*month/day/year, hour:minute:second*' format.
- Monddhh:mm:ssyyyy*  
The *timestamp* is specified in the '*month-name, day, hour:minute:second, year*' format.
- Even if the **-r** option is specified together with this option, the specified **-t** and **-T** options are not reversed. The **-T** option cannot be used for the monitoring message log.
- v** Displays a log in detail. Details of Diagnostic Codes UUID and MSG-ID, which are used by the `fmadm(8)` and `fmdump(8)` commands, are also displayed in addition to the items normally displayed. This option cannot be specified together with the **-S** or **-V** option. This option can be specified for an error log or event log.
- V** Displays a log in greater detail. If detailed log information on machine administration and OBP console log information have already been collected, they are also displayed in addition to the information displayed by the **-v** option. This option cannot be specified together with the **-S** or the **-v** option. This option can be specified for an error log.

OPERANDS      The following operands are supported:

|         |                                                       |
|---------|-------------------------------------------------------|
| error   | Displays the error log. (sometimes includes scan log) |
| power   | Displays the power log.                               |
| event   | Displays the event log.                               |
| env     | Displays the temperature and humidity record.         |
| monitor | Displays the monitoring message log.                  |
| console | Displays the console message log.                     |
| panic   | Displays the panic message log.                       |
| ipl     | Displays the IPL message log.                         |

EXTENDED  
DESCRIPTION

Logs are displayed in the following formats:

■ Error log

Default

Date: Mar 30 17:45:31 JST 2005      Code: xxxxxxxx-xxxxxxx-xxxxxxxxxxxxxxxx  
Status: Alarm                              Occurred: Mar 30 17:45:31.000 JST 2005  
FRU: PSU#1,PSU#2,\*  
Msg: ACFAIL occurred (ACS=3) (FEP type = A1)

Case where the -v option is specified

Date: Mar 30 17:45:31 JST 2005      Code: xxxxxxxx-xxxxxxx-xxxxxxxxxxxxxxxx  
Status: Alarm                              Occurred: Mar 30 17:45:31.000 JST 2005  
FRU: PSU#1,PSU#2,\*  
Msg: ACFAIL occurred (ACS=3) (FEP type = A1)  
Diagnostic Code:  
          xxxxxxxx xxxxxxxx xxxxxxxx  
          xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx  
          xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx  
UUID: bf36f0ea-9e47-42b5-fc6f-c0d979c4c8f4 MSG-ID:FMD-8000-11

Case where the -V option is specified

Date: Mar 30 17:45:31 JST 2005      Code: xxxxxxxx-xxxxxxx-xxxxxxxxxxxxxxxx  
Status: Alarm                              Occurred: Mar 30 17:45:31.000 JST 2005  
FRU: PSU#1,PSU#2,\*  
Msg: ACFAIL occurred (ACS=3) (FEP type = A1)  
Diagnostic Code:  
          xxxxxxxx xxxxxxxx xxxxxxxx  
          xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx  
          xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx

```
UUID: bf36f0ea-9e47-42b5-fc6f-c0d979c4c8f4 MSG-ID:FMD-8000-11
Diagnostic Messages:
:
:

Case where the -S option is specified
Date: Mar 30 17:45:31 JST 2005 Code: xxxxxxxx-xxxxxxx-xxxxxxxxxxxxxx
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: PSU#1,PSU#2,*
Msg: ACFAIL occurred (ACS=3)(FEP type = A1)
Diagnostic Code:
 xxxxxxxx xxxxxxxx xxxxxxxx
 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
UUID: bf36f0ea-9e47-42b5-fc6f-c0d979c4c8f4 MSG-ID:FMD-8000-11
Detail log: SCAN MINOR RC 2K
 0000: xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
 0010: xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
:
:
```

|           |                                                                             |
|-----------|-----------------------------------------------------------------------------|
| Date:     | Log collection date and time (month day hour:minute:second time-zone year)  |
|           | The displayed time is the local time.                                       |
| Code:     | Error code                                                                  |
|           | Data is displayed in 16-byte format.                                        |
| Occurred: | Date (Month Day Hour: Minute: Second TimeZone Year) when an error occurred. |
|           | This date is displayed as the local time.                                   |
| Status:   | Error status                                                                |
|           | One of the following states is displayed:                                   |
|           | Warning            Partial degradation of the unit or warning about the FRU |
|           | Alarm             FRU failure or error                                      |
|           | Information       Notification                                              |
|           | Notice            System state notification                                 |

|                      |                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FRU:                 | Suspected faulty unit                                                                                                                                                                                                                                                                                                                                                              |
|                      | The suspected faulty units that are displayed and delimited by a ", " (comma) are the units most likely and second most likely to be faulty. If there are three suspected faulty units, an "*" is displayed next to the unit third most likely to be faulty. Display of more than two suspected faulty units depends on whether more than two suspected faulty units are detected. |
| Msg:                 | Error description                                                                                                                                                                                                                                                                                                                                                                  |
| Diagnostic Code:     | Detailed error code                                                                                                                                                                                                                                                                                                                                                                |
|                      | The displayed code is a hexadecimal number.                                                                                                                                                                                                                                                                                                                                        |
| UUID:                | Abbreviation for Universal Unique Identifier                                                                                                                                                                                                                                                                                                                                       |
|                      | This is a globally unique ID that is a 32-digit hexadecimal number.                                                                                                                                                                                                                                                                                                                |
| MSG-ID:              | Unique message ID                                                                                                                                                                                                                                                                                                                                                                  |
| Diagnostic Messages: | Detailed message                                                                                                                                                                                                                                                                                                                                                                   |
|                      | If the log has a detailed message, it is displayed.                                                                                                                                                                                                                                                                                                                                |
| Detail log:          | Scan log code                                                                                                                                                                                                                                                                                                                                                                      |
|                      | This code is displayed when the log includes a scan log.                                                                                                                                                                                                                                                                                                                           |
|                      | Address: Displayed in hexadecimal notation.                                                                                                                                                                                                                                                                                                                                        |

#### ■ Power log

| Date                     | Event            | Cause             | DID | Switch  |
|--------------------------|------------------|-------------------|-----|---------|
| Mar 30 17:25:31 JST 2005 | System Power Off | Pow.Fail/Recov.-- |     | Service |
| Mar 30 17:35:31 JST 2005 | System Power On  | Pow.Fail/Recov.-- |     | Locked  |
| Mar 30 17:45:31 JST 2005 | Domain Power On  | Panel             | 00  | Locked  |
| Mar 30 17:50:31 JST 2005 | Domain Power Off | Operator          | 10  | Service |
| :                        |                  |                   |     |         |
| :                        |                  |                   |     |         |

Date: Log collection date and time (month day hour:minute:second time-zone year)

The displayed time is the local time.

Event: Power status

One of the following states is displayed:

|                  |                                       |
|------------------|---------------------------------------|
| Domain Power On  | The domain power is on.               |
| Domain Power Off | The domain power is off.              |
| System Power On  | The system power is on.               |
| System Power Off | The system power is off.              |
| SCF Reset        | XSCF is in the reset state.           |
| Domain Reset     | The domain is in the reset state.     |
| XIR              | The domain CPU is in the reset state. |

Cause: Factor that caused this Status

One of the following factors is displayed:

Self Reset, Power On, System Reset, Panel, Scheduled, RCI, Pow.Fail/Recov., Operator, SW Request, Alarm, Fatal, Panic

DID: Domain ID

*domain\_id* can be 00–23 depending on the system configuration.

Switch: Status of the mode switch of the operator panel

One of the following states are displayed:

|         |                       |
|---------|-----------------------|
| Locked  | Normal operation mode |
| Service | Service mode          |

■ Event log

Default

| Date                     | Message          |
|--------------------------|------------------|
| Mar 30 17:45:31 JST 2005 | System power on  |
| Mar 30 17:55:31 JST 2005 | System power off |
| :                        |                  |
| :                        |                  |

### Case where the -v option is specified

```

Date Message
Mar 30 17:45:31 JST 2005 System power on
Switch= Service
Code=xxxx xxxx xxxx xxxx xxxx xxxx xxxx
 xxxx xxxx xxxx xxxx xxxx xxxx xxxx

```

**Date:** Log collection date and time (month day hour:minute:second time-zone year)

The displayed time is the local time.

**Message:** Event message

**Switch:** Status of the mode switch of the operator panel

One of the following states are displayed:

Locked                      Normal operation mode

Service                    Service mode

**Code:** Detailed event information

The displayed information is in hexadecimal format

### ■ TEMPERATURE AND HUMIDITY RECORD

```

Date Temperature Humidity Power
Mar 30 17:45:31 JST 2005 32.56(C) 60.20% System Power On
Mar 30 17:55:31 JST 2005 32.56(C) 60.25% System Power Off
:
:

```

**Date:** Log collection date and time (month day hour:minute:second time-zone year)

The displayed time is the local time.

Temperature: Intake air temperature

Decimal numbers are displayed to two decimal places. The unit is degree Celsius ( C).

Humidity: Humidity

The displayed numbers are percentages (%). Humidity is displayed on the M8000/M9000 servers only.

Power: Power state of the main unit

Either of the following states is displayed:

System Power ON                      The main unit power is on.

System Power OFF                      The main unit power is off.

#### ■ Monitoring message log

```
Mar 30 17:45:31 JST 2005 monitor message
Mar 30 17:55:31 JST 2005 monitor message
:
```

Each line of display has a date and time paired with a monitoring message. The time in the displayed log collection date and time (month day hour:minute:second time-zone year) is the local time.

#### ■ Console message log

```
DomainID: 00
Mar 30 17:45:31 JST 2005 console message
Mar 30 17:55:31 JST 2005 console message
:
```

[First line]

DomainID: Domain ID

*domain\_id* can be 00–23 depending on the system configuration.

[Second and subsequent lines]

Each line of display has a date and time paired with a console message.

The time in the displayed log collection date and time (month day hour:minute:second time-zone year) is the local time.



## ■ Panic message log

```
<<panic>>
Date: Mar 30 18:45:31 JST 2005 DomainID: 00
Mar 30 17:45:31 JST 2005 panic message
Mar 30 17:55:31 JST 2005 panic message
:
```

[Second line]

Date:           Panic occurrence date and time (month day hour:minute:second time-zone year)

The displayed time is the local time.

DomainID:       Domain ID

*domain\_id* can be 00–23 depending on the system configuration.

[Third and subsequent lines]

Each line of display has a date and time paired with a panic message.

The time in the displayed log collection date and time (month day hour:minute:second time-zone year) is the local time.

## ■ IPL message log

```
<<ipl>>
Date: Mar 30 18:45:31 JST 2005 DomainID: 00
Mar 30 17:45:31 JST 2005 ipl message
Mar 30 17:55:31 JST 2005 ipl message
:
```

[Second line]

Date:           IPL date and time (month day hour:minute:second time-zone year)

The displayed time is the local time.

DomainID:       Domain ID

*domain\_id* can be 00–23 depending on the system configuration.

[Third and subsequent lines]

Each line of display has a date and time paired with an IPL message.

The time in the displayed log collection date and time (month day hour:minute:second time-zone year) is the local time.

**EXAMPLES****EXAMPLE 1** Displays an error log.

```

XSCF> showlogs error
Date: Mar 30 12:45:31 JST 2005 Code: 00112233-44556677-8899aabbccceeff0
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: IOU#0/PCI#3
Msg: offline(vendor=FUJITSU, product=MAJ3182MC)
Date: Mar 30 15:45:31 JST 2005 Code: 00112233-44556677-8899aabbccceeff0
Status: Warning Occurred: Mar 30 17:45:31.000 JST 2005
FRU: PSU#1,PSU#2
Msg: ACFAIL occurred (ACS=3)(FEP type = A1)
Date: Mar 30 17:45:31 JST 2005 Code: 00112233-44556677-8899aabbccceeff0
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: PSU#1,PSU#2,*
Msg: ACFAIL occurred (ACS=3)(FEP type = A1)

```

**EXAMPLE 2** Displays an error log in detail for the times of the specified timestamp (-v).

```

XSCF> showlogs error -p Mar3012:45:312005 -v
Date: Mar 30 12:45:31 JST 2005 Code: 00112233-44556677-8899aabbccceeff0
Status: Alarm
Component: IOU#0/PCI#3
Msg: offline(vendor=FUJITSU, product=MAJ3182MC)
Diagnostic Code:
 00112233 44556677 8899aabb
 00112233 44556677 8899aabb ccddeeff
 00112233 44556677 8899aabb ccddeeff
UUID: bf36f0ea-9e47-42b5-fc6f-c0d979c4c8f4 MSG-ID: FMD-8000-11

```

**EXAMPLE 3** Displays an error log in greater detail for the times of the specified timestamp (-v).

```

XSCF> showlogs error -p Mar3012:45:312005 -v
Date: Mar 30 12:45:31 JST 2005 Code: 00112233-44556677-8899aabbccceeff0
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: IOU#0/PCI#3
Msg: offline(vendor=FUJITSU, product=MAJ3182MC)
Diagnostic Code:
 00112233 44556677 8899aabb
 00112233 44556677 8899aabb ccddeeff
 00112233 44556677 8899aabb ccddeeff
UUID: bf36f0ea-9e47-42b5-fc6f-c0d979c4c8f4 MSG-ID: FMD-8000-11
Diagnostic Messages
Jul 11 16:17:42 plato10 root: [ID 702911 user.error] WARNING: /
pci@83,4000/scsi@2/sd@0,0 (sd47):
Jul 11 16:17:42 plato10 root: [ID 702911 user.error] incomplete write-
giving up

```

**EXAMPLE 4** Displays a power log.

```
XSCF> showlogs power
```

| Date                     | Event            | Cause             | DID | Switch  |
|--------------------------|------------------|-------------------|-----|---------|
| Mar 30 17:25:31 JST 2005 | System Power Off | Pow.Fail/Recov.-- |     | Service |
| Mar 30 17:35:31 JST 2005 | System Power On  | Pow.Fail/Recov.-- |     | Locked  |
| Mar 30 17:45:31 JST 2005 | Domain Power Off | Operator          | 00  | Locked  |
| Mar 30 17:50:31 JST 2005 | Domain Power On  | Operator          | 00  | Service |

**EXAMPLE 5** Displays a power log in the order of timestamps, starting from the latest timestamp.

```
XSCF> showlogs power -r
```

| Date                     | Event            | Cause             | DID | Switch  |
|--------------------------|------------------|-------------------|-----|---------|
| Mar 30 17:50:31 JST 2005 | Domain Power On  | Operator          | 00  | Service |
| Mar 30 17:45:31 JST 2005 | Domain Power Off | Operator          | 00  | Locked  |
| Mar 30 17:35:31 JST 2005 | System Power On  | Pow.Fail/Recov.-- |     | Locked  |
| Mar 30 17:25:31 JST 2005 | System Power Off | Pow.Fail/Recov.-- |     | Service |

**EXAMPLE 6** Displays the specified range of a power log.

```
XSCF> showlogs power -t Mar3017:302005 -T Mar3017:492005
```

| Date                     | Event            | Cause             | DID | Switch |
|--------------------------|------------------|-------------------|-----|--------|
| Mar 30 17:35:31 JST 2005 | System Power On  | Pow.Fail/Recov.-- |     | Locked |
| Mar 30 17:45:31 JST 2005 | Domain Power Off | Operator          | 00  | Locked |

**EXAMPLE 7** Displays the specified range of a power log. The log is displayed in the order of timestamps, starting from the latest timestamp.

```
XSCF> showlogs power -t Mar3017:302005 -T Mar3017:492005 -r
```

| Date                     | Event            | Cause             | DID | switch |
|--------------------------|------------------|-------------------|-----|--------|
| Mar 30 17:45:31 JST 2005 | Domain Power Off | Operator          | 00  | Locked |
| Mar 30 17:35:31 JST 2005 | System Power On  | Pow.Fail/Recov.-- |     | Locked |

**EXAMPLE 8** Displays the specified date of a power log. Data with this date or later in the log is displayed.

```
XSCF> showlogs power -t Mar3017:302005
```

| Date                     | Event            | Cause             | DID | switch  |
|--------------------------|------------------|-------------------|-----|---------|
| Mar 30 17:35:31 JST 2005 | System Power On  | Pow.Fail/Recov.-- |     | Locked  |
| Mar 30 17:45:31 JST 2005 | Domain Power Off | Panel             | 00  | Locked  |
| Mar 30 17:50:31 JST 2005 | Domain Power On  | Operator          | 00  | Service |

**EXAMPLE 9** Displays a console message log of the domain ID 0.

```
XSCF> showlogs console -d 00
```

```
DomainID:00
```

showlogs(8)

```
Mar 30 17:45:31 JST 2005 Executing last command: boot
Mar 30 17:55:31 JST 2005 Boot device: /pci@83,4000/FJSV,ulsa@2,1/
disk@0,0:a File and args:
Mar 30 17:55:32 JST 2005 SunOS Release 5.10 Version Generic 64-bit
```

Note: The codes or messages shown here may differ from those actually displayed.

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

|             |                                                                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showlookup - display the configuration for authentication and privileges lookup                                                                                                 |
| SYNOPSIS    | <b>showlookup</b><br><b>showlookup -h</b>                                                                                                                                       |
| DESCRIPTION | showlookup(8) displays configuration settings for authentication and privileges.                                                                                                |
| Privileges  | You must have useradm or fieldeng privileges to run this command.<br>Refer to setprivileges(8) for more information.                                                            |
| OPTIONS     | The following option is supported:<br><br>-h                    Displays usage statement.                                                                                       |
| EXAMPLES    | <b>EXAMPLE 1</b> Displaying Settings for Authentication and Privileges<br><br>XSCF> <b>showlookup</b><br>Privileges lookup: Local only<br>Authentication lookup: Local and LDAP |
| EXIT STATUS | The following exit values are returned:<br><br>0                    Successful completion.<br>>0                   An error occurred.                                           |
| SEE ALSO    | <b>setlookup (8)</b>                                                                                                                                                            |

showlookup(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showmonitorlog - display the contents of monitoring messages in real time                                                                                                                                                                                                                                                                                                                                                                  |
| SYNOPSIS    | <b>showmonitorlog</b><br><b>showmonitorlog</b> -h                                                                                                                                                                                                                                                                                                                                                                                          |
| DESCRIPTION | <p>The showmonitorlog(8) command displays the contents of monitoring messages in real time.</p> <p>When executed, the showmonitorlog(8) command will not terminate in order to display the monitoring message log, and the XSCF shell is occupied for the display. When a monitoring message is registered, the contents of the message are displayed.</p> <p>To stop the real-time display, press the "Ctrl" and "C" key combination.</p> |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>platadm, platop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                          |
| OPTIONS     | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                                                                                                                                                                         |
| EXAMPLES    | <p><b>EXAMPLE 1</b>    Displays the contents of a monitoring message in real time.</p> <pre>XSCF&gt; showmonitorlog Apr 13 12:32:16 XXXXX Alarm: /CMU#1,/CMU#0/DDC#0:ANALYZE:SC-IOU I/F fatal error 0x00000000; : :</pre>                                                                                                                                                                                                                  |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                                                                                                                                                                                                     |

showmonitorlog(8)





|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | shownameserver - display the registered domain name system (DNS) servers and the DNS search paths specified on the XSCF network                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SYNOPSIS             | <b>shownameserver</b><br><b>shownameserver</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DESCRIPTION          | shownameserver(8) command displays the registered DNS servers and the DNS search paths in the XSCF network.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Privileges           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| OPTIONS              | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EXTENDED DESCRIPTION | The setnameserver(8) command sets the DNS servers and the DNS search paths used in the XSCF network.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| EXAMPLES             | <p><b>EXAMPLE 1</b>      Displays the DNS servers and the DNS search paths currently set for the XSCF network. The following example shows that three DNS servers and five DNS search paths have been set:</p> <pre>XSCF&gt; <b>shownameserver</b> nameserver 192.168.1.2 nameserver 10.18.108.10 nameserver 10.24.1.2 search     example1.com search     example2.com search     example3.com search     example4.com search     example5.com</pre> <p><b>EXAMPLE 2</b>      Displays the DNS servers and the DNS search paths currently set for the XSCF network. The following example shows that no DNS server and the DNS search path are set:</p> <pre>XSCF&gt; <b>shownameserver</b> nameserver --- search     ---</pre> |

shownameserver(8)

|                    |                                         |
|--------------------|-----------------------------------------|
| <b>EXIT STATUS</b> | The following exit values are returned: |
| 0                  | Successful completion.                  |
| >0                 | An error occurred.                      |
| <b>SEE ALSO</b>    | <b>setnameserver (8)</b>                |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------|--------|--------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------|-------|-----------|------|---------|---------|------------------------------------------|
| NAME        | shownetwork - display information of network interfaces for XSCF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| SYNOPSIS    | <b>shownetwork</b> [-M] {-a -i  <i>interface</i> }<br><b>shownetwork</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| DESCRIPTION | <p>shownetwork(8) command displays current information of network interfaces for XSCF.</p> <p>Information on the specified network interface or all the network interfaces can be displayed. The following information is displayed:</p> <table><tr><td>xscf#x-y</td><td>XSCF network interface name</td></tr><tr><td>HWaddr</td><td>MAC address (hexadecimal notation)</td></tr><tr><td>inet addr</td><td>IP address</td></tr><tr><td>Bcast</td><td>Broadcast</td></tr><tr><td>Mask</td><td>Netmask</td></tr><tr><td>UP/DOWN</td><td>Whether the network interface is enabled</td></tr></table> | xscf#x-y | XSCF network interface name                           | HWaddr | MAC address (hexadecimal notation)                                                   | inet addr | IP address                                                                                           | Bcast | Broadcast | Mask | Netmask | UP/DOWN | Whether the network interface is enabled |
| xscf#x-y    | XSCF network interface name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| HWaddr      | MAC address (hexadecimal notation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| inet addr   | IP address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| Bcast       | Broadcast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| Mask        | Netmask                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| UP/DOWN     | Whether the network interface is enabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                    |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-a</td><td>Displays information for all XSCF network interfaces.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-M</td><td>Displays text by page. This option provides a function that is the same as that of the more command.</td></tr></table>                                                                                                                                                                                                  | -a       | Displays information for all XSCF network interfaces. | -h     | Displays usage statement. When used with other options or operands, an error occurs. | -M        | Displays text by page. This option provides a function that is the same as that of the more command. |       |           |      |         |         |                                          |
| -a          | Displays information for all XSCF network interfaces.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| -h          | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |
| -M          | Displays text by page. This option provides a function that is the same as that of the more command.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |         |         |                                          |

OPERANDS

The following operands are supported:

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|--------------|------------|-------|-------------------------------|-------|-------------------------------|--------------|------------|--------------|------------|-----------|-------------------------------------------------------|--------------|------------|--------------|------------|-----------|-----|-------|------------------------------------|-------|------------------------------------|
| <i>interface</i> | <p>Specifies the network interface whose information is to be displayed. One of the following values can be specified, depending on the system configuration. If this operand is specified with the -a option, the operand is ignored.</p> <ul style="list-style-type: none"><li>• In the M3000/M4000/M5000 servers:</li></ul> <p>For XSCF unit 0 :</p> <table><tr><td>xscf#0-lan#0</td><td>XSCF-LAN#0</td></tr><tr><td>xscf#0-lan#1</td><td>XSCF-LAN#1</td></tr></table> <p>For abbreviation:</p> <table><tr><td>lan#0</td><td>an abbreviation of XSCF-LAN#0</td></tr><tr><td>lan#1</td><td>an abbreviation of XSCF-LAN#1</td></tr></table> <ul style="list-style-type: none"><li>• In the M8000/M9000 servers:</li></ul> <p>For XSCF unit 0 :</p> <table><tr><td>xscf#0-lan#0</td><td>XSCF-LAN#0</td></tr><tr><td>xscf#0-lan#1</td><td>XSCF-LAN#1</td></tr><tr><td>xscf#0-if</td><td>Interface between XSCF units (Inter SCF Network; ISN)</td></tr></table> <p>For XSCF unit 1:</p> <table><tr><td>xscf#1-lan#0</td><td>XSCF-LAN#0</td></tr><tr><td>xscf#1-lan#1</td><td>XSCF-LAN#1</td></tr><tr><td>xscf#1-if</td><td>ISN</td></tr></table> <p>For takeover IP address:</p> <table><tr><td>lan#0</td><td>takeover IP address for XSCF-LAN#0</td></tr><tr><td>lan#1</td><td>takeover IP address for XSCF-LAN#1</td></tr></table> | xscf#0-lan#0 | XSCF-LAN#0 | xscf#0-lan#1 | XSCF-LAN#1 | lan#0 | an abbreviation of XSCF-LAN#0 | lan#1 | an abbreviation of XSCF-LAN#1 | xscf#0-lan#0 | XSCF-LAN#0 | xscf#0-lan#1 | XSCF-LAN#1 | xscf#0-if | Interface between XSCF units (Inter SCF Network; ISN) | xscf#1-lan#0 | XSCF-LAN#0 | xscf#1-lan#1 | XSCF-LAN#1 | xscf#1-if | ISN | lan#0 | takeover IP address for XSCF-LAN#0 | lan#1 | takeover IP address for XSCF-LAN#1 |
| xscf#0-lan#0     | XSCF-LAN#0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| xscf#0-lan#1     | XSCF-LAN#1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| lan#0            | an abbreviation of XSCF-LAN#0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| lan#1            | an abbreviation of XSCF-LAN#1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| xscf#0-lan#0     | XSCF-LAN#0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| xscf#0-lan#1     | XSCF-LAN#1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| xscf#0-if        | Interface between XSCF units (Inter SCF Network; ISN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| xscf#1-lan#0     | XSCF-LAN#0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| xscf#1-lan#1     | XSCF-LAN#1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| xscf#1-if        | ISN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| lan#0            | takeover IP address for XSCF-LAN#0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |
| lan#1            | takeover IP address for XSCF-LAN#1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |            |              |            |       |                               |       |                               |              |            |              |            |           |                                                       |              |            |              |            |           |     |       |                                    |       |                                    |

EXTENDED  
DESCRIPTION

- In the M8000/M9000 servers, a takeover IP address can be used without a need to determine whether XSCF has been switched. By setting the LAN ports of the active XSCF unit as lan#0 and lan#1, they can be accessed with the names lan#0 and lan#1.

- In the M3000/M4000/M5000 servers, the value of the lan#0 is fixed with xscf#0-lan#0, and the lan#1 is fixed with xscf#0-lan#1.
- In the M8000/M9000 servers and when the takeover IP address has been disabled by setnetwork(8) command, nothing will be displayed even though the takeover IP address is specified by the shownetwork(8) command.
- The setnetwork(8) command configures a network interface used by the XSCF.

## EXAMPLES

**EXAMPLE 1** Displays the information for XSCF-LAN#0 on XSCF unit 0.

```
XSCF> shownetwork xscf#0-lan#1
xscf#0-lan#1
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr:192.168.10.11 Bcast: 192.168.10.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:20241827 (19.3 MiB) TX bytes:2089769 (1.9 MiB)
Base address:0x1000
```

**EXAMPLE 2** Displays the information for XSCF-LAN#1 on XSCF unit 0 in the M3000/M4000/M5000 server.

```
XSCF> shownetwork lan#1
xscf#0-lan#1
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr:192.168.10.11 Bcast: 192.168.10.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:20241827 (19.3 MiB) TX bytes:2089769 (1.9 MiB)
Base address:0x1000
```

**EXAMPLE 3** Displays the information for ISN on the XSCF unit 0.

```
XSCF> shownetwork xscf#0-if
xscf#0-if
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr:192.168.10.128 Bcast: 192.168.10.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:(0.0 B) TX bytes:17010 (16.6 KiB)
Base address:0x1000
```

**EXAMPLE 4** Displays the information for XSCF-LAN#0 on XSCF Unit 0.

```
XSCF> shownetwork xscf#0-lan#0
xscf#0-lan#0
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr:192.168.11.10 Bcast:192.168.11.255 Mask 255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:14541827 (13.8 MiB) TX bytes:1459769 (1.3 MiB)
Base address:0x1000
```

**EXAMPLE 5** Displays the information for the takeover IP address for XSCF-LAN#0.

```
XSCF> shownetwork lan#0
lan#0 Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr:192.168.1.10 Bcast:192.168.1.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
Base address:0xe000
```

**EXAMPLE 6** Displays the current settings of XSCF network.

```
XSCF> shownetwork -i
Active Internet connections (without servers)
Proto Recv-Q Send-Q Local Address Foreign Address State
tcp 0 0 xx.xx.xx.xx:telnet xxxx:1617 ESTABLISHED
```

**EXAMPLE 7** Displays the information for XSCF unit 0 and XSCF unit 1 in the M8000/M9000 servers.

```
XSCF> shownetwork -a
xscf#0-lan#0
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr: 192.168.11.10 Bcast: 192.168.11.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:12241827 (11.3 MiB) TX bytes:1189769 (0.9 MiB)
Base address:0x1000

xscf#0-lan#1
Link encap:Ethernet HWaddr 00:00:00:12:34:57
inet addr:192.168.10.11 Bcast: 192.168.10.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
```

```
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:20241827 (19.3 MiB) TX bytes:2089769 (1.9 MiB)
Base address:0x1000

xscf#0-if Link encap:Ethernet HWaddr 00:00:00:00:00:00
inet addr:192.168.10.128 Bcast:192.168.10.255 Mask: 255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 B) TX bytes:17010 (16.6 KiB)
Base address:0x1000

xscf#1-lan#0
HWaddr 00:00:00:12:34:59
inet addr:192.168.10.12 Mask:255.255.255.0

xscf#1-lan#1
HWaddr 00:00:00:12:34:60

xscf#1-if
HWaddr 00:00:00:12:34:61
XSCF>
```

**EXIT STATUS**      The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**      **setnetwork**(8)

shownetwork(8)





|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | shownotice - display copyright and license information for the XSCF Control Package (XCP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SYNOPSIS    | <b>shownotice</b> [-c {copyright   license}]<br><br><b>shownotice</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| DESCRIPTION | The shownotice(8) command displays by page the copyright and, if available, license files for the XCP. When used without an option, shownotice displays copyright information and any available license information. You can display only the copyright or the license file by specifying the -c option.                                                                                                                                                                                                                                                                                        |
| Privileges  | No privileges are required to run this command.<br><br>Refer to setprivileges(8) for more information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| OPTIONS     | The following options are supported:<br><br>-c {copyright license}<br>Specifies for display by page either the copyright file or the license file for the XCP.<br><br>copyright                    Specifies for display only the copyright file.<br><br>license Specifies for display only the license file, if a license file is available for your platform. If the license file for your platform is not available for the shownotice command, the license argument is not supported.<br><br>-h<br><br>Displays usage statement. When used with other options or operands, an error occurs. |
| EXAMPLES    | <b>EXAMPLE 1</b> Display Only Copyright Information<br><br>XSCF> <b>shownotice -c copyright</b><br><i>[Copyright text displays.]</i><br><br><b>EXAMPLE 2</b> Display Copyright and License Information<br><br>XSCF> <b>shownotice</b><br><i>[Copyright text displays.]</i><br><i>[License text displays (if available).]</i>                                                                                                                                                                                                                                                                    |

shownotice(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showntp - display the NTP information which currently set for XSCF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SYNOPSIS    | <p><b>showntp</b> {-l   -a   <i>address</i>   -s   -m}</p> <p><b>showntp</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DESCRIPTION | <p>The showntp(8) command displays the NTP information currently set for XSCF.</p> <p>The showntp(8) command can display the following information:</p> <ul style="list-style-type: none"> <li>■ NTP servers which have been registered to the XSCF network</li> <li>■ Status of synchronization with the NTP servers</li> <li>■ Stratum value which has been set to XSCF</li> <li>■ Designation of preferred server</li> <li>■ Clock address of the local clock which is set in XSCF</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OPTIONS     | <p>The following options are supported:</p> <p>-a                   Displays all the NTP servers currently set for the XSCF network.</p> <p>-h                   Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-l                   Displays whether synchronization with an NTP server is being maintained.</p> <p>-m                   Displays whether a preferred server has been designated (<i>prefer</i>), and displays the clock address of the local clock (<i>localaddr</i>).</p> <p>                    In <i>prefer</i>, either of the following is displayed:</p> <p>                    on                   Preferred server has been designated.</p> <p>                    off                  Preferred server not designated.</p> <p>                    In <i>localaddr</i>, the least significant byte of the clock address of the local clock 127.127.0.x is displayed in a numeric from 0 to 3.</p> <p>-s                   Displays the stratum value which has been set to XSCF.</p> |

OPERANDS

The following operand is supported:

*address* Specifies the IP address or the XSCF host name of an NTP server to be displayed. If the -a option is specified, the operand is ignored.

A specified IP address is a set of four integer values delimited by the "." (period). The following address form is accepted:

*xxx.xxx.xxx.xxx*

where:

*xxx* An integer from 0–255. Zero suppression can be used to specify the integer.

The host name can be specified in the format that complies with RFC 1034.

EXTENDED DESCRIPTION

- When the preferred server not designated, the NTP server in the output of the showntp(8) command does not come with the prefer information.
- The setntp(8) command sets the NTP servers used in the XSCF network.
- When you use the showntp(8) command after the setntp(8) command, it will display the pending modifications performed by setntp(8), which might not yet be effective. If not yet effective, the setting will not match the actual NTP settings currently in operation. To view the NTP settings currently in operation, execute showntp(8) command with the -l option.

EXAMPLES

**EXAMPLE 1** Displays all NTP servers currently being set (in a case that the preferred server designated).

```
XSCF> showntp -a
server ntp1.example.com prefer
server ntp2.example.com
```

**EXAMPLE 2** Confirms synchronization with an NTP server and displays the results.

```
XSCF> showntp -l
remote refid st t when poll reach delay offset jitter
=====
*192.168.0.27 192.168.1.56 2 u 27 64 377 12.929 -2.756 1.993
+192.168.0.57 192.168.1.86 2 u 32 64 377 13.030 2.184 94.421
127.127.1.0 .LOCL 5 l 44 64 377 0.000 0.000 0.008
```

**EXAMPLE 3** Displays the stratum value which has been set to XSCF.

```
XSCF> showntp -s
stratum : 5
```

**EXAMPLE 4** Displays whether a preferred server has been designated, and displays the clock address of the local clock.

```
XSCF> showntp -m
prefer : on
localaddr : 0
```

**EXIT STATUS** The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

**SEE ALSO** [setntp\(8\)](#)

showntp(8)



|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showpacketfilters - show the IP packet filtering rules that are set in the XSCF network                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SYNOPSIS             | <b>showpacketfilters</b> {-a   -l} [-M]<br><b>showpacketfilters</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DESCRIPTION          | showpacketfilters(8) command shows the IP packet filtering rules that are set in the XSCF network.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Privileges           | No privileges are required to run this command.<br>Refer to setprivileges(8) for more information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OPTIONS              | The following options are supported:<br><br>-a                      Shows the IP packet filtering rules that are set in XSCF.<br>-h                      Displays usage statement. When used with other options or operands, an error occurs.<br>-l                      Shows the operation status of the IP packet filtering rules that are set in XSCF.<br>-M                      Displays text by page.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| EXTENDED DESCRIPTION | The setpacketfilters(8) command can be used to set the IP filtering rules.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| EXAMPLES             | <p><b>EXAMPLE 1</b>    On M8000/M9000 servers, shows the IP packet filtering rules that are set in the XSCF network.</p> <pre> XSCF&gt; showpacketfilters -a -s 172.16.0.0/255.255.0.0 -i xscf#0-lan#0 -j DROP -s 172.16.0.0/255.255.0.0 -i xscf#1-lan#0 -j DROP -s 10.10.10.10/255.255.255.255 -j DROP -s 192.168.100.0/255.255.255.0 -i xscf#0-lan#1 -j ACCEPT -s 192.168.100.0/255.255.255.0 -i xscf#1-lan#1 -j ACCEPT -i xscf#0-lan#1 -j DROP -i xscf#1-lan#1 -j DROP           </pre> <p><b>EXAMPLE 2</b>    On M8000/M9000 servers, shows the operation status of the IP packet filtering rules in the XSCF network.</p> <pre> XSCF&gt; showpacketfilters -l pkts bytes target      prot in          source 0      0 DROP      all  xscf#0-lan#0  172.16.0.0/255.255.0.0 0      0 DROP      all  xscf#0-lan#0  10.10.10.10 0      0 DROP      all  xscf#0-lan#1  10.10.10.10           </pre> |

showpacketfilters(8)

```
0 0 ACCEPT all xscf#0-lan#1 192.168.100.0/255.255.255.0
0 0 DROP all xscf#0-lan#1 0.0.0.0/0.0.0.0

pkts bytes target prot in source
0 0 DROP all xscf#1-lan#0 172.16.0.0/255.255.0.0
0 0 DROP all xscf#1-lan#0 10.10.10.10
0 0 DROP all xscf#1-lan#1 10.10.10.1010
0 0 ACCEPT all xscf#1-lan#1 192.168.100.0/255.255.255.0
0 0 DROP all xscf#1-lan#1 0.0.0.0/0.0.0.0
XSCF>
```

**EXIT STATUS**      The following exit values are returned:

- 0                      Successful completion.
- >0                    An error occurred.

**SEE ALSO**      **setpacketfilters** (8)



|             |                                                                                                                                                                                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showpasswordpolicy - display the current password settings                                                                                                                                                                                              |
| SYNOPSIS    | <b>showpasswordpolicy</b><br><b>showpasswordpolicy -h</b>                                                                                                                                                                                               |
| DESCRIPTION | showpasswordpolicy(8) displays the password policy settings. These include default password expiration settings for new accounts, pam_cracklib parameters, and the number of passwords to keep in password history for each user.                       |
| Privileges  | <p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                     |
| OPTIONS     | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                      |
| EXAMPLES    | <p><b>EXAMPLE 1</b>      Displaying Password Policy Settings</p> <pre> XSCF&gt; showpasswordpolicy Mindays: 0 Maxdays: 99999 Warn: 7 Inactive: -1 Expiry: 0 Retry: 3 Difok: 10 Minlen: 9 Dcredit: 1 Ucredit: 1 Lcredit: 1 Ocredit: 1 Remember: 3 </pre> |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                  |
| SEE ALSO    | <b>setpasswordpolicy (8)</b>                                                                                                                                                                                                                            |

showpasswordpolicy(8)



|                      |                                                                                                                                                                                                                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showpowerupdelay - display the current settings for the warm-up time of the system and wait time before system startup                                                                                                                                                          |
| SYNOPSIS             | <b>showpowerupdelay</b><br><b>showpowerupdelay -h</b>                                                                                                                                                                                                                           |
| DESCRIPTION          | <p>The showpowerupdelay(8) command displays the current settings for the warm-up time of the system and wait time before system startup.</p> <p>The following settings are displayed:</p> <pre>warmup time    Warm-up time wait time      Wait time before system startup</pre> |
| Privileges           | <p>You must have one of the following privileges to run this command:</p> <pre>platadm, platop, domainadm, domainmgr, domainop, fieldeng</pre> <p>Refer to setprivileges(8) for more information.</p>                                                                           |
| OPTIONS              | <p>The following options are supported:</p> <pre>-h                Displays usage statement.</pre>                                                                                                                                                                              |
| EXTENDED DESCRIPTION | The setpowerupdelay(8) command sets the warm-up time of the system and a wait time before system startup.                                                                                                                                                                       |
| EXAMPLES             | <p><b>EXAMPLE 1</b> Displays the warm-up time of the system and wait time before system startup.</p> <pre>XSCF&gt; <b>showpowerupdelay</b> warmup time : 10 minute(s) wait time   : 20 minute(s)</pre>                                                                          |
| EXIT STATUS          | <p>The following exit values are returned:</p> <pre>0                Successful completion. &gt;0               An error occurred.</pre>                                                                                                                                        |
| SEE ALSO             | <b>setpowerupdelay</b> (8)                                                                                                                                                                                                                                                      |

showpowerupdelay(8)



|                      |                                                                                                                                                                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showresult - display the exit status of the most recently executed command                                                                                                                                                                                                  |
| SYNOPSIS             | <b>showresult</b><br><b>showresult -h</b>                                                                                                                                                                                                                                   |
| DESCRIPTION          | <p>The <code>showresult(8)</code> command displays the exit status of the most recently executed command.</p> <p><code>showresult(8)</code> is convenient for a remote control program to confirm whether the most recently executed command is successfully completed.</p> |
| Privileges           | <p>No privileges are required to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>                                                                                                                                                  |
| OPTIONS              | <p>The following options are supported:</p> <p><code>-h</code>                      Displays usage statement.</p>                                                                                                                                                           |
| EXTENDED DESCRIPTION | <p>If you stop a running command by an operation such as <code>Ctrl-C</code> and then execute the <code>showresult(8)</code> command, the exit status that is displayed, zero or non-zero, depends on the command that was stopped.</p>                                     |
| EXAMPLES             | <p><b>EXAMPLE 1</b>      display the exit status of <code>setupfru(8)</code>.</p> <pre>XSCF&gt; setupfru -x 1 sb 0 XSCF&gt; showresult 0</pre>                                                                                                                              |
| EXIT STATUS          | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                                      |

showresult(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------|---------|-----------------|---------|-----------------|-------|------------------------------------------------------|--|---------------|--|------------------|--|---------------|--|---------------------------------------|--|---------------|--|----------------|-----------|-----------------------------|
| NAME        | showroute - display routing information for an XSCF network interface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
| SYNOPSIS    | <b>showroute</b> [-M] [-n] {-a   <i>interface</i> }<br><b>showroute</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
| DESCRIPTION | <p>showroute(8) command displays the current routing information for an XSCF network interface.</p> <p>Routing information for the specified network interface or all the network interfaces can be displayed. The following information is displayed:</p> <table><tr><td>Destination</td><td>Destination IP address</td></tr><tr><td>Gateway</td><td>Gateway address</td></tr><tr><td>Netmask</td><td>Netmask address</td></tr><tr><td>Flags</td><td>Flag which indicates the status of specified routing</td></tr><tr><td></td><td>U route is up</td></tr><tr><td></td><td>H target is host</td></tr><tr><td></td><td>G use gateway</td></tr><tr><td></td><td>R reinstate route for dynamic routing</td></tr><tr><td></td><td>C cache entry</td></tr><tr><td></td><td>! reject route</td></tr><tr><td>Interface</td><td>XSCF network interface name</td></tr></table> | Destination | Destination IP address                                                    | Gateway | Gateway address | Netmask | Netmask address | Flags | Flag which indicates the status of specified routing |  | U route is up |  | H target is host |  | G use gateway |  | R reinstate route for dynamic routing |  | C cache entry |  | ! reject route | Interface | XSCF network interface name |
| Destination | Destination IP address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
| Gateway     | Gateway address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
| Netmask     | Netmask address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
| Flags       | Flag which indicates the status of specified routing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
|             | U route is up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
|             | H target is host                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
|             | G use gateway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
|             | R reinstate route for dynamic routing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
|             | C cache entry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
|             | ! reject route                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
| Interface   | XSCF network interface name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-a</td><td>Displays routing information that is set for all XSCF network interfaces.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -a          | Displays routing information that is set for all XSCF network interfaces. |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |
| -a          | Displays routing information that is set for all XSCF network interfaces.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                                                           |         |                 |         |                 |       |                                                      |  |               |  |                  |  |               |  |                                       |  |               |  |                |           |                             |

- h Displays usage statement. When used with other options or operands, an error occurs.
- M Displays text by page. This option provides a function that is the same as that of the more command.
- n Displays IP address without the name resolution of host name.

OPERANDS

The following operand is supported:

*interface* Specifies the network interface whose information is to be displayed. One of the following values can be specified, depending on the system configuration. If this operand is specified with the -a option, the operand is ignored.

- In the M3000/M4000/M5000 servers:  
  
For XSCF unit 0:  
  
xscf#0-lan#0 XSCF-LAN#0  
xscf#0-lan#1 XSCF-LAN#1  
  
For abbreviation:  
  
lan#0 XSCF-LAN#0  
lan#1 XSCF-LAN#1
- In the M8000/M9000 servers:  
  
For XSCF unit 0:  
  
xscf#0-lan#0 XSCF-LAN#0  
xscf#0-lan#1 XSCF-LAN#1  
  
For XSCF unit 1 :  
  
xscf#1-lan#0 XSCF-LAN#0  
xscf#1-lan#1 XSCF-LAN#1

EXTENDED DESCRIPTION

The setroute(8) command sets routing information for the XSCF network.

EXAMPLES

**EXAMPLE 1** Displays routing information for XSCF-LAN#0 on XSCF unit 0.

```
XSCF> showroute xscf#0-lan#0
Destination Gateway Netmask Flags Interface
server1.example * 255.255.255.0 U xscf#0-lan#0
default 192.168.10.1 0.0.0.0 UG xscf#0-lan#0
```



**EXAMPLE 2**     Displays routing information for XSCF-LAN#0 on XSCF unit 0 without the name resolution of host name.

```
XSCF> showroute -n xscf#0-lan#0
Destination Gateway Netmask Flags Interface
192.168.10.0 0.0.0.0 255.255.255.0 U xscf#0-lan#0
0.0.0.0 192.168.10.1 0.0.0.0 UG xscf#0-lan#0
```

**EXAMPLE 3**     Displays all routing information for XSCF unit 0 and XSCF unit 1 in the M8000/M9000 server.

```
XSCF> showroute -a
Kernel IP routing table
Destination Gateway Netmask Flags Interface
192.168.10.0 * 255.255.255.0 U xscf#0-lan#0
default 192.168.10.1 0.0.0.0 UG xscf#0-lan#0

Destination Gateway Netmask Interface
default 192.168.10.1 0.0.0.0 xscf#1-lan#0
XSCF>
```

**EXIT STATUS**     The following exit values are returned:

- 0                    Successful completion.
- >0                  An error occurred.

**SEE ALSO**        **setroute** (8)

showroute(8)



|             |                                                                                                                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showshutdowndelay - display the shutdown wait time at power interruption of the uninterruptible power supply (UPS)                                                                                                                                                               |
| SYNOPSIS    | <b>showshutdowndelay</b><br><b>showshutdowndelay -h</b>                                                                                                                                                                                                                          |
| DESCRIPTION | <p>The showshutdowndelay(8) command displays the wait time before the start of system shutdown for when power interruption occurs in a system connected to the UPS.</p> <p>The time set by the setshutdowndelay(8) command is displayed. The default time set is 10 seconds.</p> |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>platadm, platop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                |
| OPTIONS     | <p>The following options are supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                             |
| EXAMPLES    | <p><b>EXAMPLE 1</b>    Displays the wait time before the start of shutdown.</p> <pre>XSCF&gt; showshutdowndelay UPS shutdown wait time : 600 second(s)</pre>                                                                                                                     |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                     An error occurred.</p>                                                                                                                          |
| SEE ALSO    | <b>setshutdowndelay (8)</b>                                                                                                                                                                                                                                                      |

showshutdowndelay(8)



|                      |                                                                                                                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showsmtp - display the Simple Mail Transfer Protocol (SMTP) configuration information                                                                                                                                                      |
| SYNOPSIS             | <b>showsmtp</b><br><br><b>showsmtp</b> -v<br><br><b>showsmtp</b> -h                                                                                                                                                                        |
| DESCRIPTION          | showsmtp(8) displays the SMTP configuration. When used without options, it displays current SMTP configuration data.                                                                                                                       |
| Privileges           | You must have platadm or platop privileges to run this command.<br><br>Refer to setprivileges(8) for more information.                                                                                                                     |
| OPTIONS              | The following options are supported:<br><br>-h                               Displays usage statement.<br><br>When used with other options or operands, an error occurs.<br><br>-v                               Specifies verbose output. |
| EXTENDED DESCRIPTION | SMTP information includes the Mail Server and Reply addresses.                                                                                                                                                                             |
| EXAMPLES             | <b>EXAMPLE 1</b> Displaying SMTP configuration<br><br>XSCF> <b>showsmtp</b><br>Mail Server: 10.4.1.1<br>Port: 25<br>Authentication Mechanism: smtp-auth<br>User Name: jsmith<br>Password: *****<br>Reply Address: adm@customer.com         |
| EXIT STATUS          | The following exit values are returned:<br><br>0                               Successful completion.<br><br>>0                              An error occurred.                                                                            |
| SEE ALSO             | <b>setsmtp</b> (8)                                                                                                                                                                                                                         |

showsmtp(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showsnmp - display the configuration information and current status of the SNMP agent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SYNOPSIS    | <b>showsnmp</b><br><b>showsnmp</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DESCRIPTION | showsnmp(8) displays the configuration and information and current status of the SNMP agent. This includes: agent status, port, system location, contact and description, traphosts, SNMP version, and any enabled MIB modules.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Privileges  | <p>You must have platadm or platop privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| OPTIONS     | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| EXAMPLES    | <p><b>EXAMPLE 1</b>    Displaying SNMP Information for a System That Has Not Been Set Up</p> <pre> XSCF&gt; <b>showsnmp</b>  Agent Status:           Disabled Agent Port:             161 System Location:        Unknown System Contact:         Unknown System Description:     Unknown  Trap Hosts: None SNMP V1/V2c: None  Enabled MIB Modules: None </pre> <p><b>EXAMPLE 2</b>    Displaying SNMP Information for a Disabled System Set Up With SNMPv3 Trap Host</p> <pre> XSCF&gt; <b>showsnmp</b>  Agent Status:           Disabled Agent Port:             161 System Location:        SanDiego System Contact:         bob@jupiter.west System Description:     FFl </pre> |

```
Trap Hosts:
Hostname Port Type Community String Username Auth Protocol

host1 162 v3 n/a jsmith SHA

SNMP V1/V2c: None

Enabled MIB Modules: None
```

**EXAMPLE 3**    Displaying SNMP Information for a Enabled System Set Up With SNMPv1/v2c Trap Host

```
XSCF> showsnmp

Agent Status: Enabled
Agent Port: 161
System Location: SanDiego
System Contact: jsmith@jupiter.west
System Description: FF1

Trap Hosts:
Hostname Port Type Community String Username Auth Protocol

host1 162 v1 public jsmith SHA
host2 162 v2c public n/a n/a
host3 162 v3 n/a bob SHA

SNMP V1/V2c:

Status: Enabled
Community String: public

Enabled MIB Modules:
SP_MIB
FM_MIB
```

**EXIT STATUS**    The following exit values are returned:

- 0                  Successful completion.
- >0                An error occurred.

**SEE ALSO**        **setsnmp** ( 8 )



|             |                                                                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showsnmpusm - display the current User-based Security Model (USM) information for the SNMP agent                                                                            |
| SYNOPSIS    | <b>showsnmpusm</b><br><b>showsnmpusm -h</b>                                                                                                                                 |
| DESCRIPTION | showsnmpusm(8) displays the current USM information for the SNMP agent.                                                                                                     |
| Privileges  | You must have platadm or platop privileges to run this command.<br>Refer to setprivileges(8) for more information.                                                          |
| OPTIONS     | The following option is supported:<br><br>-h                      Displays usage statement.                                                                                 |
| EXAMPLES    | <b>EXAMPLE 1</b> Displaying SNMP Information for a System<br><br>XSCF> <b>showsnmpusm</b><br>Username      Auth Protocol<br>-----<br>jsmith        SHA<br>sue           MD5 |
| EXIT STATUS | The following exit values are returned:<br><br>0                Successful completion.<br>>0              An error occurred.                                                |
| SEE ALSO    | <b>setsnmpusm (8)</b>                                                                                                                                                       |

showsnpusm(8)



|             |                                                                                                                                                                                                                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showsnmppvaccm - display the current View-based Access Control Access (VACCm) information for the SNMP agent                                                                                                                                                                                                                                 |
| SYNOPSIS    | <b>showsnmppvaccm</b><br><b>showsnmppvaccm -h</b>                                                                                                                                                                                                                                                                                            |
| DESCRIPTION | showsnmppvaccm(8) displays the current VACCm information for the SNMP agent.                                                                                                                                                                                                                                                                 |
| Privileges  | <p>You must have platadm or platop privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                |
| OPTIONS     | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                                                                           |
| EXAMPLES    | <p><b>EXAMPLE 1</b>      Displaying SNMP Information for a System</p> <pre> XSCF&gt; <b>showsnmppvaccm</b> Groups: Groupname      Username ----- admin          jsmith, bob  Views: View           Subtree    Mask      Type ---- all_view       .1         ff        include  Access: View           Group ---- all_view       admin </pre> |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                     An error occurred.</p>                                                                                                                                                                                      |
| SEE ALSO    | <b>setsnmppvaccm</b> (8)                                                                                                                                                                                                                                                                                                                     |

showsnpvacm(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------|---------|-------------------------------|---------|-------------------------------|-------------|---------------------------------------|
| NAME        | showssh - display the settings of the Secure Shell (SSH) service that configured for the XSCF network                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |
| SYNOPSIS    | <p><b>showssh</b> [-c hostkey] [-M]</p> <p><b>showssh</b> [-c pubkey] [-u <i>user_name</i>] [-M]</p> <p><b>showssh</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |
| DESCRIPTION | <p>showssh(8) command displays the current settings of the SSH service that configured for the XSCF network.</p> <p>The following information is displayed:</p> <table><tr><td>SSH status</td><td>Validity of the SSH service</td></tr><tr><td>SSH DSCP</td><td>Whether the access from domain to the SSH service via the Domain - SP Communication Protocol (DSCP) is permitted</td></tr><tr><td>RSA key</td><td>Host public key in RSA format</td></tr><tr><td>DSA key</td><td>Host public key in DSA format</td></tr><tr><td>Fingerprint</td><td>Host public key in fingerprint format</td></tr></table> <p>When specified the display of user public key, the user public key number, which automatically numbered by system, and the user public key are displayed.</p> <p>Only SSH2 is supported for XSCF.</p> | SSH status | Validity of the SSH service                                                                 | SSH DSCP  | Whether the access from domain to the SSH service via the Domain - SP Communication Protocol (DSCP) is permitted | RSA key | Host public key in RSA format | DSA key | Host public key in DSA format | Fingerprint | Host public key in fingerprint format |
| SSH status  | Validity of the SSH service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |
| SSH DSCP    | Whether the access from domain to the SSH service via the Domain - SP Communication Protocol (DSCP) is permitted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |
| RSA key     | Host public key in RSA format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |
| DSA key     | Host public key in DSA format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |
| Fingerprint | Host public key in fingerprint format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none"><li>■ To display the user public key of other user account:<br/>useradm</li><li>■ To display the information other than above:<br/>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</li></ul> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-c hostkey</td><td>Displays a host public key. If the -c option is omitted, "-c hostkey" is assumed specified.</td></tr><tr><td>-c pubkey</td><td>Displays the user public key. If the -c option is omitted, "-c hostkey" is assumed specified</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -c hostkey | Displays a host public key. If the -c option is omitted, "-c hostkey" is assumed specified. | -c pubkey | Displays the user public key. If the -c option is omitted, "-c hostkey" is assumed specified                     |         |                               |         |                               |             |                                       |
| -c hostkey  | Displays a host public key. If the -c option is omitted, "-c hostkey" is assumed specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |
| -c pubkey   | Displays the user public key. If the -c option is omitted, "-c hostkey" is assumed specified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                                                                             |           |                                                                                                                  |         |                               |         |                               |             |                                       |

- h Displays usage statement. When used with other options or operands, an error occurs.
- M Displays text by page. This option provides a function that is the same as that of the `more` command.
- u *user\_name* Specify the user account name to display the user public key. Should be specified with "-c pubkey." When the -u option omitted, the user public key of the current login user account will be displayed.

## EXTENDED DESCRIPTION

- You can specify the automatically-numbered user public key number to delete the user public key by `setssh(8)` command.
- The `setssh(8)` command makes settings for the SSH service in the XSCF network.

## EXAMPLES

**EXAMPLE 1** Displays the information of host public keys.

```
XSCF> showssh
SSH status: enabled
SSH DSCP: accept
RSA key:
ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEAt0IG3wfpQnGr51znS9XtzwHcBBb/
UU0LN08SilUXE6j+
avlxdY7AFqBf1wGxLF+Tx5pTa6HuZ8o8yUBbDZVJAAAAFQCfKPxarV+/5qzK4A43Qaigkqu/
6QAAAIIBM
LQ122G8pwibESrh5JmOhSxpLz13P26ksI8qPr+7BxmjLR0k=
Fingerprint:
1024 e4:35:6a:45:b4:f7:e8:ce:b0:b9:82:80:2e:73:33:c4 /etc/ssh/
ssh_host_rsa_key.pub

DSA key:
ssh-dss
AAAAB3NzaC1kc3MAAACBAJSy4GxD7Tk4fxFvyW1D0NUDqZQPY3PuY2IG7QC4BQ1kewDnblB8
/
JEqI+8pnfbWzmOWU37KHL19OEYNAV6v+WZT6RE1U5Pyb8F16uq96L8QDMswFlICMZgrn+ilJ
NStr6r8
KDJfwOQMmK0eeDFj2mL40NOvaLQ83+rRwW6Ny/yF1Rgv6PUpUqRLw4VeRb+uOfmPRpe6/
kb4z++lOhtp
WI9bay6CK0nrFRok+z54ez7BrDFBQVUNZx9PyEFezJG9ziEYVUag/23LIAiLxxBmW9pqa/
WxC21Ja4RQ
VN3009kmVwAAAAIAON1LR/
9Jdd7yyG18+Ue7eBBJHrCA0pkSzvffzFFj5XUzQBdabh5p5Rwz+lvriawFI
ZI9j2uhM/3HQdrvYSVBEdMjaasF9hB6T/
uFwP8yqtJf6Y9GdjBAhWuH8F13pX4BtvK9IeldqCscnOuu0
e2r1UoI6GICMr64FL0YYBSwfbwLIz6PSA/yKQe23dwfkSfcwQZNq/
5pThGPi3tob5Qev2KCK2OyEDMCA
```

```
OvVlMhqHuPNpX+hE19nPdBFGzQ==
Fingerprint:
1024 9e:39:8e:cb:8a:99:ff:b4:45:12:04:2d:39:d3:28:15 /etc/ssh/
ssh_host_dsa_key.pub
```

**EXAMPLE 2** Displays the user public key of the current login user account.

```
XSCF> showssh -c pubkey
Public key:
1 ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAzFh95SohrDgpnN7zFCJCVNy+jazPTjNDxcid
QGbiHYDCBttI4151Y0Sv85FJwDpSNHNKoVLMYLjtBmUMPbGgGVB61qskSv/
FeV44hefNCZMiXGItIIpK
P0nBK4XJpCFoFbPXNUHDwlrTD9icD5U/wRFGSRRxFI+Ub5oLRxN8+A8=abcd@example.com
2 ssh-rsa
CSqGSIb3DQ EjARYHZWUubWFpbDCBnzANB gkqhkiG9w0BAQEFAAOBjQAwgYkCgYEA
nkPntf+TjYtyKlNYFbO/YavFpUzkYTLHdt0Fbz/
tZmGd3e6Jn34A2W9EC7D9hjLsj+kAP41A16wFwGO7
KP3H4iImX0Uysjl9Hyk4jLBU51sw8JqvT2utTjltV5mFPKL6bDcAgY9=efgh@example.com
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

## SEE ALSO

**setssh** (8)

showssh(8)





| NAME                 | showstatus - display the degraded Field Replaceable Units (FRUs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|--------|--------------------------------------|---------|-----------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------|
| SYNOPSIS             | <b>showstatus</b> [-M]<br><b>showstatus</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| DESCRIPTION          | showstatus(8) command displays information about degraded units that are among the FRUs composing the system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| Privileges           | You must have one of the following privileges to run this command:<br><br>useradm, platadm, platop, domainadm, domainmgr, domainop, fieldeng<br><br>Refer to setprivileges(8) for more information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| OPTIONS              | The following options are supported:.<br><br>-h                    Displays usage statement. When used with other options or operands, an error occurs.<br><br>-M                    Displays text by page. This option provides a function that is the same as that of the more command.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| EXTENDED DESCRIPTION | <p>The showstatus(8) shows the information concerning a unit failed or degraded and the unit on the upper hierarchy, among the FRUs composing the system. "Status:" will be followed by any of the status described below. Beside a unit failed or degraded, placed an "*" indicating the locating fault.</p> <table><tr><th>Status</th><th>Description</th></tr><tr><td>Normal</td><td>The component is normally operating.</td></tr><tr><td>Faulted</td><td>The component is faulty and is not operating.</td></tr><tr><td>Degraded</td><td>The component is operating. However, either an error has been detected or the component is faulty. As a result, the component might be operating with reduced functionality or performance.</td></tr><tr><td>Deconfigured</td><td>As a result of another component's faulted or degraded status, the component is not operating. (The component itself is not faulted or degraded.)</td></tr><tr><td>Maintenance</td><td>The component is under maintenance. A deletefru(8), replacefru(8), or addfru(8) operation is currently underway.</td></tr></table> | Status | Description | Normal | The component is normally operating. | Faulted | The component is faulty and is not operating. | Degraded | The component is operating. However, either an error has been detected or the component is faulty. As a result, the component might be operating with reduced functionality or performance. | Deconfigured | As a result of another component's faulted or degraded status, the component is not operating. (The component itself is not faulted or degraded.) | Maintenance | The component is under maintenance. A deletefru(8), replacefru(8), or addfru(8) operation is currently underway. |
| Status               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| Normal               | The component is normally operating.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| Faulted              | The component is faulty and is not operating.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| Degraded             | The component is operating. However, either an error has been detected or the component is faulty. As a result, the component might be operating with reduced functionality or performance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| Deconfigured         | As a result of another component's faulted or degraded status, the component is not operating. (The component itself is not faulted or degraded.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| Maintenance          | The component is under maintenance. A deletefru(8), replacefru(8), or addfru(8) operation is currently underway.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |             |        |                                      |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |

EXAMPLES

**EXAMPLE 1** Displays the degraded units. In this example, a CPU module and memory module in a CPU memory unit are degraded because of an error.

```
XSCF> showstatus
 CMU#0;
* CPUM#0-CHIP#0 Status:Faulted;
* MEM#00A Status:Faulted;
```

**EXAMPLE 2** Displays the degraded units. In this example, a memory module on a memory board is degraded because of an error.

```
XSCF> showstatus
 MBU_B;
 MEMB#0;
* MEM#0A Status:Faulted;
```

**EXAMPLE 3** Displays the degraded units. In this example, a CPU/memory board unit and memory module on a motherboard unit are degraded because of an error.

```
XSCF> showstatus
 MBU_B Status:Normal;
* MEMB#1 Status:Deconfigured;
* MEM#3B Status:Deconfigured;
```

**EXAMPLE 4** Displays the degraded units. In this example, a CPU/memory board unit is degraded because a crossbar unit is degraded.

```
XSCF> showstatus
 MBU_B Status:Normal;
* CPUM#1-CHIP#1 Status:Deconfigured;
* XBU_B#0 Status:Degraded;
```

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

|                             |                                                                                                                                                                                                                                                                                                            |        |                                |         |                                 |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------|---------|---------------------------------|
| <b>NAME</b>                 | showtelnet - display the current status of the Telnet service for the XSCF network                                                                                                                                                                                                                         |        |                                |         |                                 |
| <b>SYNOPSIS</b>             | <b>showtelnet</b><br><b>showtelnet -h</b>                                                                                                                                                                                                                                                                  |        |                                |         |                                 |
| <b>DESCRIPTION</b>          | <p>showtelnet(8) command displays the current status of the Telnet service for the XSCF network.</p> <p>One of the following states is displayed:</p> <table> <tr> <td>enable</td><td>The Telnet service is enabled.</td></tr> <tr> <td>disable</td><td>The Telnet service is disabled.</td></tr> </table> | enable | The Telnet service is enabled. | disable | The Telnet service is disabled. |
| enable                      | The Telnet service is enabled.                                                                                                                                                                                                                                                                             |        |                                |         |                                 |
| disable                     | The Telnet service is disabled.                                                                                                                                                                                                                                                                            |        |                                |         |                                 |
| <b>Privileges</b>           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                              |        |                                |         |                                 |
| <b>OPTIONS</b>              | <p>The following option is supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement.</td></tr> </table>                                                                                                                                                                                         | -h     | Displays usage statement.      |         |                                 |
| -h                          | Displays usage statement.                                                                                                                                                                                                                                                                                  |        |                                |         |                                 |
| <b>EXTENDED DESCRIPTION</b> | The settelnet(8) command makes settings for the Telnet service in the XSCF network.                                                                                                                                                                                                                        |        |                                |         |                                 |
| <b>EXAMPLES</b>             | <p><b>EXAMPLE 1</b> Displays the status of the Telnet service for the XSCF network.</p> <pre>XSCF&gt; showtelnet Telnet status:enabled</pre>                                                                                                                                                               |        |                                |         |                                 |
| <b>EXIT STATUS</b>          | <p>The following exit values are returned:</p> <table> <tr> <td>0</td><td>Successful completion.</td></tr> <tr> <td>&gt;0</td><td>An error occurred.</td></tr> </table>                                                                                                                                    | 0      | Successful completion.         | >0      | An error occurred.              |
| 0                           | Successful completion.                                                                                                                                                                                                                                                                                     |        |                                |         |                                 |
| >0                          | An error occurred.                                                                                                                                                                                                                                                                                         |        |                                |         |                                 |
| <b>SEE ALSO</b>             | <b>settelnet (8)</b>                                                                                                                                                                                                                                                                                       |        |                                |         |                                 |

showtelnet(8)



|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showtimezone - display the XSCF time zone and Daylight Saving Time information of current settings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SYNOPSIS             | <b>showtimezone -c tz</b><br><br><b>showtimezone -c dst [-m {standard   custom}]</b><br><br><b>showtimezone -h</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| DESCRIPTION          | The showtimezone(8) command displays the XSCF time zone and Daylight Saving Time information of current settings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Privileges           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OPTIONS              | <p>The following option is supported:</p> <p>-c tz                      Displays the time zone.</p> <p>-c dst                     Displays the Daylight Saving Time information.</p> <p>-h                         Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-m {standard   custom} Specifies the Daylight Saving Time information to be displayed. Either of the following can be specified. If the -m option omitted, it is regarded as "-m custom" specified.</p> <p>                            standard</p> <p>                                 Displays the Daylight Saving Time information that has been set in the current time zone by default.</p> <p>                            custom</p> <p>                                 Displays the Daylight Saving Time information that you set by using the settimezone(8) command. If the Daylight Saving Time is not set, nothing displayed.</p> |
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"> <li>■ The Daylight Saving Time information is displayed in the following format. <ul style="list-style-type: none"> <li>■ When specified custom:</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                                   |                                                                                                                                                                          |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>std offset dst[offset2] [from-date[/time] to-date[/time] ]</i> |                                                                                                                                                                          |
| <i>std</i>                                                        | Abbreviations of time zone.                                                                                                                                              |
| <i>offset</i>                                                     | Offset time of time zone and Greenwich mean time (GMT).<br><br>Displayed in minus "-" in case the offset is plus, and displayed in plus "+" in case the offset is minus. |
| <i>dst</i>                                                        | Name of Daylight Saving Time.                                                                                                                                            |

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>offset2</i>          | Offset time of Daylight Saving Time and Greenwich mean time (GMT).<br><br>Displayed in minus "-" in case the offset is plus, and displayed in plus "+" in case the offset is minus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <i>from-date[/time]</i> | The starting time of Daylight Saving Time.<br><br>Any of the following formats displays <i>from-date</i> .<br><br><i>Mm.w.d</i><br><p><i>Mm</i>: Shows the month when Daylight Saving Time starts. Any numeric from 1 to 12 comes in <i>m</i>.</p> <p><i>w</i>: Shows the week when Daylight Saving Time starts. Any numeric from 1 to 5 comes in, "1" for the first week and "5" for the last week in the month.</p> <p><i>d</i>: Shows the day of the week when Daylight Saving Time starts. Any numeric from 0 to 6 comes in, "0" for Sunday and "6" for Saturday.</p> <p><i>Jn</i><br/> <i>Jn</i>: The date when Daylight Saving Time starts. Any numeric from 1 to 365 comes in, "1" for January 1st. The leap-year day is not counted.</p> <p><i>n</i><br/> <i>n</i>: The date when Daylight Saving Time starts. Any numeric from 1 to 365 comes in, "1" for January 2nd. The leap-year day is counted.</p> <p>In <i>time</i>, the time to switch to Daylight Saving Time is shown in the pre-switched time.</p> <p><i>hh:mm:ss</i>                      Shows the time in "hh:mm:ss" format. The default value is "02:00:00."</p> |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>to-date[/time]</i>                    | The termination time of Daylight Saving Time.<br><br>Any of the following formats displays <i>to-date</i> .<br><br><i>Mm.w.d</i><br><br><i>Mm</i> : Shows the month when Daylight Saving Time terminates. Any numeric from 1 to 12 comes in <i>m</i> .<br><i>w</i> : Shows the week when Daylight Saving Time terminates. Any numeric from 1 to 5 comes in, "1" for the first week and "5" for the last week in the month.<br><i>d</i> : Shows the day of the week when start Daylight Saving Time terminates. Any numeric from 0 to 6 comes in, "0" for Sunday and "6" for Saturday.<br><br><i>Jn</i><br><br><i>Jn</i> : The date when Daylight Saving Time terminates. Any numeric from 1 to 365 comes in, "1" for January 1st. The leap-year day is not counted.<br><br><i>n</i><br><br><i>n</i> : The date when Daylight Saving Time terminates. Any numeric from 1 to 365 comes in, "1" for January 2nd. The leap-year day is counted.<br><br>In <i>time</i> , the time to switch from Daylight Saving Time is shown in the pre-switched time.<br><br><i>hh:mm:ss</i> Shows the time in "hh:mm:ss" format. The default value is "02:00:00." |
| ■ When specified standard:               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| From: <i>ddd MM dd hh:mm:ss yyyy dst</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| To: <i>ddd MM dd hh:mm:ss yyyy dst</i>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <i>ddd</i>                               | a day of the week                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <i>MM</i>                                | month                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <i>dd</i>                                | day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <i>hh</i>                                | hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <i>mm</i>                                | minutes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <i>ss</i>                                | second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <i>yyyy</i>                              | year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <i>dst</i>                               | dst name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



- The `settimezone(8)` command sets the time zone of the XSCF.

## EXAMPLES

**EXAMPLE 1** Displays the time zone.

```
XSCF> showtimezone -c tz
Asia/Tokyo
```

**EXAMPLE 2** Displays the Daylight Saving Time information as follows: the abbreviation of time zone is JST, the offset from GMT is +9, the name of Daylight Saving Time is JDT, Daylight Saving Time is 1 hour ahead, and the time period is from the last Sunday of March 2:00 to the last Sunday of October 2:00.

```
XSCF> showtimezone -c dst -m custom
JST-9JDT,M3.5.0,M10.5.0
```

**EXAMPLE 3** Displays the Daylight Saving Time information as follows: the abbreviation of time zone is JST, the offset from GMT is +9, the name of Daylight Saving Time is JDT, Daylight Saving Time is 1 hour ahead, and the time period is from the first Sunday of April 0:00 to the first Sunday of September 0:00.

```
XSCF> showtimezone -c dst
JST-9JDT-10,M4.1.0/00:00:00,M9.1.0/00:00:00
```

**EXAMPLE 4** Displays the Daylight Saving Time information that has been set in the current time zone by default.

```
XSCF> showtimezone -c dst -m standard
From: Sun Mar 9 03:00:00 2008 PDT
To: Sun Nov 2 01:59:59 2008 PDT
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

## SEE ALSO

`setdate(8)`, `settimezone(8)`, `showdate(8)`

showtimezone(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showuser - display user account information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SYNOPSIS    | <p><b>showuser</b></p> <p><b>showuser</b> [[-a] [-M] [-p] [-u] [<i>user</i>]]</p> <p><b>showuser</b> [[-a] [-l] [-M] [-p] [-u]]</p> <p><b>showuser</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DESCRIPTION | <p>showuser (8) displays XSCF user account information. If the user argument is specified, showuser displays account information for the specified user. If the user argument is not specified, then showuser displays account information for the current user. If the -l option is specified, showuser displays account information for all local users.</p> <p>When invoked with one or more of the options -a, -p, or -u, showuser displays information as described in the OPTIONS section below. When invoked without any of these options, showuser displays all account information.</p>                                                                                                                                                                                                                                      |
| Privileges  | <p>No privileges are needed for you to view your own account. You must have useradm privileges to run this command for any other user.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| OPTIONS     | <p>The following options are supported:</p> <ul style="list-style-type: none"> <li>-a           Displays password validity and account state information. This is only valid for XSCF user accounts.</li> <li>-h           Displays usage statement.</li> <li>              When used with other options or operands, an error occurs.</li> <li>-l           Displays information on all local XSCF user accounts sorted by user login name. Cannot be used with the <i>user</i> operand.</li> <li>-M           Displays text by page. This option provides a function that is the same as that of the more command.</li> <li>-p           Displays all privileges assigned to the user. This is valid for local and remote users.</li> <li>-u           Displays user ID (UID). This is valid for local and remote users.</li> </ul> |
| OPERANDS    | <p>The following operands are supported:</p> <ul style="list-style-type: none"> <li><i>user</i>       Name of an existing user account. Cannot be used with the -l option.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**EXAMPLES****EXAMPLE 1** Displays Password and Account Validity Information

```

XSCF> showuser -a
User Name: jsmith
Status: Enabled
Minimum: 0
Maximum: 99999
Warning: 7
Inactive: -1
Last Change: Aug 22, 2005
Password Expires: Never
Password Inactive: Never
Account Expires: Never

```

**EXAMPLE 2** Displays Privileges Information

```

XSCF> showuser -p
User Name: jsmith
Privileges: domainadm@1,3-6,8,9
 platadm

```

**EXIT STATUS**

The following exit values are returned:

```

0 Successful completion.
>0 An error occurred.

```

**SEE ALSO**

**adduser(8)**, **deleteuser(8)**, **disableuser(8)**, **enableuser(8)**, **password(8)**, **setprivileges(8)**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | snapshot - collect and transfer environment, log, error, and FRUID data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SYNOPSIS    | <p><b>snapshot</b> <i>-d device</i> [-r] [-e [-P <i>password</i>]] [-L {F I R}] [-l] [-v] [[-q] {-y n}] [-S <i>time</i> [-E <i>time</i>]]</p> <p><b>snapshot</b> <i>-t user@host: directory</i> [-e [-P <i>password</i>]] [-k <i>host-key</i>] [-l] [-L {F I R}] [-P <i>password</i>] [-v] [[-q] {-y n}] [-S <i>time</i> [-E <i>time</i>]]</p> <p><b>snapshot</b> <i>-T</i> [-D <i>directory</i>] [-e [-P <i>password</i>]] [-k <i>host-key</i>] [-l] [-L {F I R}] [-v] [[-q] {-y n}] [-S <i>time</i> [-E <i>time</i>]]</p> <p><b>snapshot</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| DESCRIPTION | <p>The snapshot(8) command provides a data-collection mechanism that enables rapid, reliable, and flexible retrieval of diagnostic information on the Service Processor. snapshot(8) collects the following data: Configuration, Environmentals, Logs, Errors, and FRUID information. It transfers data to the specified destination.</p> <p>snapshot opens an output file, the name of which is automatically generated based on the host name and IP address assigned to the Service Processor and the UTC time (in hours, minutes, and seconds) and date on the Service Processor at the time snapshot is invoked. For example: <code>jupiter_10.1.1.1_2006-07-08T22-33-44</code>. snapshot does not support user-specified file names for the output file. As files and command output are collected from the Service Processor, snapshot compresses the output data and writes it in the format of a <code>.zip</code> archive.</p> <p>snapshot stores the collected data on a remote network host or on an external media device, based upon the use of the <code>-t</code>, <code>-T</code> or <code>-d</code> option. To store the collected data on a remote network host using the <code>-t</code> option, you must specify a host name (or IP address), a target directory on the remote network host, and the user name of a user on the remote host. If you have already set an archive target using <code>setarchiving(8)</code>, you can use the <code>-T</code> option to store the data on a remote network host using that same information, or use <code>-T</code> in conjunction with the <code>-D</code> option to change only the target directory. When storing data on a remote network host, snapshot opens a network connection using SSH to act as a data pipe to the remote file.</p> <p>It is possible to restrict data collection on some larger log files to a specific date range using the options <code>-S</code> and, optionally, <code>-E</code>.</p> <p>Encrypted network protocols, such as SSH and SSL, are used for transmission of the data across a network connection. The entire <code>.zip</code> archive itself can be encrypted using the <code>-e</code> flag. To decrypt a <code>.zip</code> archive that has been encrypted with this process, use the encryption password given to snapshot with the <code>openssl</code></p> |

command. The following example decrypts the file  
 jupiter\_10.1.1.1\_2006-07-08T22-33-44.zip.e:

---

```
% openssl aes-128-cbc -d -in jupiter_10.1.1.1_2006-07-08T22-33-44.zip.e -out jupiter_10.1.1.1_2006-07-08T22-33-44.zip
```

---

Every .zip archive generated by snapshot includes two files generated by snapshot itself. The first file, called README, contains the original name of the .zip archive, the name of the configuration file on the Service Processor used to create the .zip archive, the version of snapshot and whether log-only mode (the -l flag) was used to generate the archive. The second file, called CONFIG, is a copy of the actual configuration file used by snapshot to generate the archive.

The data collected by snapshot may potentially be used by Service personnel to diagnose problems with the system. snapshot can collect different sets of data for different diagnostic purposes. The three different sets are named Initial, Root Cause, and Full, and are specified through the use of the -L option.

#### Privileges

You must have platadm or fieldeng privileges to run this command.

Refer to setprivileges(8) for more information.

#### OPTIONS

The following options are supported.

- |                     |                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -D <i>directory</i> | Used with the -T option, specifies a value for <i>directory</i> instead of the value set using setarchiving(8). The directory field must not begin with a "-" or a "~". Refer to the description of the -T option for more detailed information.                                                                                                                   |
| -d <i>device</i>    | Specifies the external media device to use. The following option is available to -d:                                                                                                                                                                                                                                                                               |
| -r                  | Removes all files from the external media device prior to data collection. This option is not valid with the -t or -T options.                                                                                                                                                                                                                                     |
| -E <i>time</i>      | Specifies the end time for the time period for which data is collected. Used with the -S <i>time</i> option for the start time, defines the period of time for which log messages are collected by snapshot. Only those log entries created before the time specified by -E <i>time</i> are collected by snapshot. Refer also to the description of the -S option. |
| <i>time</i>         | Interpreted using strptime(3), using one of the following two formats:                                                                                                                                                                                                                                                                                             |
|                     | %Y-%m-%d, %H:%M:%S                                                                                                                                                                                                                                                                                                                                                 |
|                     | %Y-%m-%d_%H-%M-%S                                                                                                                                                                                                                                                                                                                                                  |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -e                 | Encrypts the zip archive. Required when using <code>-P password</code> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| -h                 | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                    | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| -k <i>host-key</i> | Used with the <code>-t</code> or <code>-T</code> option, sets the public key that the Service Processor uses to log in to the network host. This option is not valid with the <code>-d</code> option.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                    | Possible values for <i>host-key</i> are as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                    | <p>none</p> <p>This literal value specifies that a public key should not be used to authenticate the network host.</p> <p>download</p> <p>This literal value specifies that <code>snapshot</code> will use <code>ssh</code> to download a public host key for the network host and download the key from the host specified in the <code>-t</code> argument. <code>snapshot</code> displays the key's md5 fingerprint and prompts for confirmation. If you accept the key, it is used for server authentication. If you reject the key, <code>snapshot</code> exits without doing anything. This is the default behavior in SSH Target Mode if <code>-k</code> is not specified.</p> <p><i>public</i></p> <p>The specified public key is used for server authentication. The <i>host-key</i> argument should be the complete public key of the network host, beginning with key type (the complete contents of <code>/etc/ssh/ssh_host_rsa_key.pub</code> on the network host).</p> <p><b>Note</b> – The public key should be enclosed in quotes to ensure that the shell treats it as a single word.</p> |
| -L {F I R}         | Specifies which set of logs will be collected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    | <p>F Full log set.</p> <p>I Initial log set.</p> <p>R Root Cause log set.</p> <p>If no log set is specified, the Initial log set is collected by default.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| -l                 | Specifies collecting only log files. Does not collect command output.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -e                 | Encrypts the zip archive. Required when using -P <i>password</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -h                 | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                    | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| -k <i>host-key</i> | Used with the -t or -T option, sets the public key that the Service Processor uses to log in to the network host. This option is not valid with the -d option.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                    | Possible values for <i>host-key</i> are as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                    | <p>none</p> <p>This literal value specifies that a public key should not be used to authenticate the network host.</p> <p>download</p> <p>This literal value specifies that snapshot will use ssh to download a public host key for the network host and download the key from the host specified in the -t argument. snapshot displays the key's md5 fingerprint and prompts for confirmation. If you accept the key, it is used for server authentication. If you reject the key, snapshot exits without doing anything. This is the default behavior in SSH Target Mode if -k is not specified.</p> <p><i>public</i></p> <p>The specified public key is used for server authentication. The <i>host-key</i> argument should be the complete public key of the network host, beginning with key type (the complete contents of <i>/etc/ssh/ssh_host_rsa_key.pub</i> on the network host).</p> <p><b>Note</b> – The public key should be enclosed in quotes to ensure that the shell treats it as a single word.</p> |
| -L {F I R}         | Specifies which set of logs will be collected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                    | <p>F Full log set.</p> <p>I Initial log set.</p> <p>R Root Cause log set.</p> <p>If no log set is specified, the Initial log set is collected by default.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| -l                 | Specifies collecting only log files. Does not collect command output.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -n                               | Automatically answers "n" (no) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| -P <i>password</i>               | Used with the -e option, sets the encryption password used for encrypting the output file.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| -p <i>password</i>               | Specifies the user password used to log in to the host using SSH. This option is valid with the -t option, not with the -d or -T options.                                                                                                                                                                                                                                                                                                                                                                                                               |
| -q                               | Suppresses all messages to stdout, including prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| -S <i>time</i>                   | Specifies the start time for the time period for which data is collected. Used with the -E <i>time</i> option for the end time, defines the period of time for which log messages are collected by snapshot. If no end time is specified, the target time period ends at the time the snapshot command is launched. Refer also to the description of the -E option.                                                                                                                                                                                     |
| <i>time</i>                      | Interpreted using <code>strptime(3)</code> , using one of the following two formats:<br><br>%Y-%m-%d, %H:%M:%S<br>%Y-%m-%d_%H-%M-%S                                                                                                                                                                                                                                                                                                                                                                                                                     |
| -T                               | Specifies executing snapshot in SSH target mode using the value for <i>user@host:directory</i> previously set using <code>setarchiving(8)</code> . Can be used with the -D option to substitute an alternative value for <i>directory</i> .<br><br><b>Note</b> - The user must create the target directory on the remote host, snapshot does not create the target directory.                                                                                                                                                                           |
| -t<br><i>user@host:directory</i> | Sets the network host and remote directory for data destination. The <i>host</i> field specifies the host name or IP address of the network host. The <i>user</i> field specifies the user name for the ssh login to the archive host. The <i>directory</i> field specifies the archive directory on the archive host where the output file should be stored. The directory field must not begin with a "-" or a "~".<br><br><b>Note</b> - The user must create the target directory on the remote host, snapshot does not create the target directory. |
| -v                               | Specifies verbose output. Displays all actions and commands as they are executed. If this option is specified with the -q option, the -v option is ignored.<br><br><b>Note</b> - You may not have the required privileges to run all the commands that are executed by the snapshot configuration file. If this occurs, you will see error messages indicating these operations are not permitted.                                                                                                                                                      |
| -y                               | Automatically answers "y" (yes) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**EXTENDED  
DESCRIPTION****Modes of Operation**

The following is a brief overview of the modes of operation for the snapshot command.

The first mode is *SSH Target Mode*. The data collector is run in this mode when it is invoked with the `-t` or `-T` option. In this mode, the data collector opens an SSH connection from the Service Processor to the specified target (after appropriate authentication) and sends the zip data archive through the SSH connection to the target host. The user must create the target directory on the remote host, snapshot does not create the target directory. The transmission encryption in this mode is provided by SSH.

The second mode is *USB Device Mode*. The data collector is run in this mode when it is invoked with the `-d` flag. In this mode, the data collector's output (which is the zip archive) is saved in a file on the USB device. The USB device should be formatted using the FAT32 file system. As in SSH Target mode, you can use the `-e` option to encrypt the zip file in this mode. However, no transmission encryption (such as SSH) occurs in this mode, since the data stays local to the Service Processor.

**EXAMPLES****EXAMPLE 1** Downloading a Public Key Using SSH

```
XSCF> snapshot -t joe@jupiter.west:/home/joe/logs/x -k download
Downloading Public Key from 'jupiter.west'...
Key fingerprint in md5: c9:e0:bc+b2:1a:80:29:24:13:d9:f1:13:f5:5c:2c:0f
Accept this public key (yes/no)? y
Enter ssh password for user 'joe' on host 'jupiter.west'
Setting up ssh connection to remote host...
Collecting data into joe@jupiter.west:/home/joe/logs/x/archive.zip
Data collection complete.
```

**EXAMPLE 2** Downloading a Host Key

```
XSCF> snapshot -t joe@jupiter.west:/home/joe/logs/x
Downloading Public Key from 'jupiter.west'...
Public Key Fingerprint: c9:e0:bc+b2:1a:80:29:24:13:d9:f1:13:f5:5c:2c:0f
Accept this public key (yes/no)? y
Enter ssh password for user 'joe' on host 'jupiter.west'
Setting up ssh connection to remote host...
Collecting data into joe@jupiter.west:/home/joe/logs/x/archive.zip
Data collection complete.
```

**EXAMPLE 3** Downloading With a User-Provided Public Key

```
XSCF> snapshot -t joe@jupiter.west:/home/joe/logs/x -k "ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAwVFISQNVBFhTTzq0AX5iQqCkkJjd6ezWkVGtmMkJJzzM
jYK0sBlhn6dGEIiHdBSzO8QLAXb8N4Kq8JDOBpLSN4yokUPTcZQNkJaYA0W058Qgxbn"
```

Enter ssh password for user 'joe' on host 'jupiter.west'

Setting up ssh connection to remote host...

Collecting data into joe@jupiter.west:/home/joe/logs/x/archive.zip

Data collection complete.

**EXAMPLE 4** Log Files Only Using No Public Key

```
XSCF> snapshot -t bob@mars.east:/home/bob/logs/x -k none -l
```

Enter ssh password for user 'bob' on host 'mars.east'

Log only mode. No commands will be collected.

Setting up ssh connection to remote host...

Collecting data into joe@jupiter.west:/home/joe/logs/x/archive.zip

Data collection complete.

**EXAMPLE 5** Downloading Using Encryption With Provided Password and No Public Key

```
XSCF> snapshot -t bob@mars.east:/home/bob/logs/x -k none -e -P password
```

Output data will be encrypted.

Enter ssh password for user 'bob' on host 'mars.east'

Setting up ssh connection to remote host...

Collecting data into joe@jupiter.west:/home/joe/logs/x/archive.zip

Data collection complete.

**EXAMPLE 6** Downloading Using No Key to Invalid Directory

```
XSCF> snapshot -t sue@saturn.north:/home/sue/logs/bad_dir -k none
```

Enter ssh password for user 'sue' on host 'saturn.north'

Setting up ssh connection to remote host...

Failed to create remote file:

/home/sue/logs/bad\_dir/archive.zip

Verify adequate disk permissions and disk space on target host

Error opening SSH target

Exiting with error 1

**EXAMPLE 7** Downloading Public Key With Connectivity Failure

```
XSCF> snapshot -t sue@saturne.west:/home/sue/logs/x -k download
```

Downloading Public Key from 'saturne.west'...

Error downloading key for host 'saturne.west'

Error opening SSH target

Exiting with error 1

#### EXAMPLE 8 Downloading Public Key and Answering No to All Prompts

```
XSCF> snapshot -v -t jill@earth.east:/home/jill/logs/x -k download -n
Downloading Public Key from 'earth.east'...
Public Key: ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAwVFisQNVBFhTTzq0AX5iQqCkKJjd6ezWkVGtmMkJJzzM
jYK0sBlhn6dGEIiHdBSzO8QLAXb8N4Kq8JDOBpLSN4yokUPTcZQNxJaYA0W058Qgxbn
Key fingerprint in md5: c9:e0:bc+b2:1a:80:29:24:13:d9:f1:13:f5:5c:2c:0f
Accept this public key (yes/no)? no
Public Key declined
Error opening SSH target
Exiting with error 1
```

#### EXAMPLE 9 Downloading Public Key Attempted by Unauthorized User

```
XSCF> snapshot -t fakeuser@fakehost.com:/fakedir -p fake-password
Downloading Public Key from 'fakehost.com'...
Error downloading key for host 'fakehost.com'
Error opening SSH target
Exiting with error 1
```

#### EXAMPLE 10 Downloading to External Media Device

```
XSCF> snapshot -d usb0 -r
Testing writability of USB device....SUCCESS
About to remove all files from device 'usb0'. Continue? [y|n] : y
Collecting data into /media/usb_msd/jupiter_10.1.1.1_2006-04-17T22-41-
51.zip
Data collection complete.
```

#### EXAMPLE 11 Limiting Data Collection for Certain Logs to a Date Range

```
XSCF> snapshot -d usb0 -S 2007-01-01,01:00:00 -E 2007-01-31_14-00-00
Testing writability of USB device....SUCCESS
Collecting data into /media/usb_msd/jupiter_10.1.1.1_2006-04-17T22-41-
51.zip
Data collection complete.
```


#### EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

#### SEE ALSO

**setarchiving**(8), **showarchiving**(8), **showlogs**(8)

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                                                                                                                                                                        |    |                                                                                      |    |                                                |    |                                                       |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|----|------------------------------------------------|----|-------------------------------------------------------|
| NAME        | switchscf - switch the XSCF unit between the active and standby states                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                                                                                                                                                                                                                                                                        |    |                                                                                      |    |                                                |    |                                                       |
| SYNOPSIS    | <b>switchscf</b> [[-q] -{y n}] -t {Active   Standby} [-f]<br><b>switchscf</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                                                                                                                                                                                                        |    |                                                                                      |    |                                                |    |                                                       |
| DESCRIPTION | <p>The <code>switchscf(8)</code> command switches the XSCF unit that the user is currently logged in to, between the active and standby states.</p> <p>The <code>switchscf(8)</code> command is available on the M8000/M9000 servers only.</p> <p>When the active XSCF unit currently logged in to is switched from active to standby or vice versa, the state of the standby XSCF unit is also switched.</p> <p><b>Note</b> – When switched, the session of the network which has been connected to the active XSCF is terminated.</p> <div><p><b>Caution</b> – Usually, XSCFs cannot be switched while maintenance work is in progress. If "Switching of XSCF state is disabled due to a maintenance operation. Try again later." is displayed as a result from the <code>switchscf(8)</code> command and XSCFs cannot be switched, check whether the <code>addfru(8)</code>, <code>deletefru(8)</code>, <code>replacefru(8)</code>, or <code>flashupdate(8)</code> maintenance command is being executed. If the command is being executed, wait until the command ends. If XSCFs cannot be switched though none of those maintenance commands is being executed, use the <code>-f</code> option to switch them.</p></div> |    |                                                                                                                                                                                                                                                                        |    |                                                                                      |    |                                                |    |                                                       |
| Privileges  | <p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                                                                                                                                                                                                                                                                        |    |                                                                                      |    |                                                |    |                                                       |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-f</td><td>Switches the state in a case XSCF state can't be changed due to a maintenance operation.<br/><b>Caution</b> - Since the <code>-f</code> option forcibly switches XSCF, limit the use of this option to such cases as when switching does not work in normal operations.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -f | Switches the state in a case XSCF state can't be changed due to a maintenance operation.<br><b>Caution</b> - Since the <code>-f</code> option forcibly switches XSCF, limit the use of this option to such cases as when switching does not work in normal operations. | -h | Displays usage statement. When used with other options or operands, an error occurs. | -n | Automatically answers "n" (no) to all prompts. | -q | Suppresses all messages to stdout, including prompts. |
| -f          | Switches the state in a case XSCF state can't be changed due to a maintenance operation.<br><b>Caution</b> - Since the <code>-f</code> option forcibly switches XSCF, limit the use of this option to such cases as when switching does not work in normal operations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                                                                                                                                                                                                                                                                        |    |                                                                                      |    |                                                |    |                                                       |
| -h          | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                                                                                                                                                                                                                                                                        |    |                                                                                      |    |                                                |    |                                                       |
| -n          | Automatically answers "n" (no) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                                                                                                                                                                                                                                                                        |    |                                                                                      |    |                                                |    |                                                       |
| -q          | Suppresses all messages to stdout, including prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                                                                                                                                                                                                                        |    |                                                                                      |    |                                                |    |                                                       |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <div>-t ActiveSwitches the state of the XSCF unit to active.</div> <div>-t StandbySwitches the state of the XSCF unit to standby.</div> <div>-yAutomatically answers "y" (yes) to all prompts.</div>                                                                                                                                                                                                                                                                                                                                                                             |
| EXTENDED DESCRIPTION | <div>When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "<b>y</b>" to execute the command or "<b>n</b>" to cancel the command.</div>                                                                                                                                                                                                                                                                                                                                                                      |
| EXAMPLES             | <div><div>EXAMPLE 1Switches the state of the XSCF unit that the user is currently logged in to, to standby.</div><div>XSCF&gt; switchscf -t Standby</div><div>The XSCF unit switch between the Active and Standby states. Continue?</div><div>[y n]:y</div></div> <div><div>EXAMPLE 2Switches the state of the XSCF unit that the user is currently logged in to, to standby. Automatically answers "y" to all prompts.</div><div>XSCF&gt; switchscf -t Standby -y</div><div>The XSCF unit switch between the Active and Standby states. Continue?</div><div>[y n]:y</div></div> |
| EXIT STATUS          | <div>The following exit values are returned:</div> <div><div>0Successful completion.</div><div>&gt;0An error occurred.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|             |                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | testsb - perform an initial diagnosis of the specified physical system board (PSB)                                                                                                                                                                                                                                                                                                            |
| SYNOPSIS    | <b>testsb</b> [[-q] {-y -n}] [-m <i>diag=mode</i> ] <i>location</i><br><b>testsb</b> [[-q] {-y -n}] [-m <i>diag=mode</i> ] -c {all expansion}<br><b>testsb</b> -v [-y -n] [-m <i>diag=mode</i> ] <i>location</i><br><b>testsb</b> -v [-y -n] [-m <i>diag=mode</i> ] -c {all expansion}<br><b>testsb</b> -h                                                                                    |
| DESCRIPTION | <p>testsb(8) command performs an initial diagnosis of the specified PSB.</p> <p>The testsb(8) command is not available on the M3000 server.</p> <p>The configuration of the PSB and operation of each device mounted on the PSB are checked. After the diagnostics, the result is displayed.</p> <p>The result also can be seen in "Test" and "Fault" displayed by showboards(8) command.</p> |
| Privileges  | <p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                               |

|                      |                                                                                                                                                                                                                                                                                                                     |                                                                                                      |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| OPTIONS              | The following options are supported:.                                                                                                                                                                                                                                                                               |                                                                                                      |
|                      | -c {all expansion}                                                                                                                                                                                                                                                                                                  | Specifies the target PSB to be diagnosed. One of the values shown below can be specified:            |
|                      | all                                                                                                                                                                                                                                                                                                                 | Diagnoses all the PSB that are mounted.                                                              |
|                      | If the following conditions not satisfied, it leads to an error.                                                                                                                                                                                                                                                    |                                                                                                      |
|                      | <ul style="list-style-type: none"><li>• The system has been powered off.</li><li>• All of the target PSB are Uni-XSB.</li></ul>                                                                                                                                                                                     |                                                                                                      |
|                      | expansion                                                                                                                                                                                                                                                                                                           | Diagnoses all the PSB that are mounted on the expansion cabinet.                                     |
|                      | If the following conditions not satisfied, it leads to an error.                                                                                                                                                                                                                                                    |                                                                                                      |
|                      | <ul style="list-style-type: none"><li>• All of the target PSB are not operating on the domain.</li><li>• All of the target PSB are Uni-XSB.</li></ul>                                                                                                                                                               |                                                                                                      |
|                      | -h                                                                                                                                                                                                                                                                                                                  | Displays usage statement. When used with other options or operands, an error occurs.                 |
|                      | -m diag= <i>mode</i>                                                                                                                                                                                                                                                                                                | Specifies the diagnostic level of initial diagnosis. One of the values shown below can be specified: |
| OPERANDS             | min                                                                                                                                                                                                                                                                                                                 | Normal (default)                                                                                     |
|                      | max                                                                                                                                                                                                                                                                                                                 | Maximum                                                                                              |
|                      | -n                                                                                                                                                                                                                                                                                                                  | Automatically answers "n" (no) to all prompts.                                                       |
|                      | -q                                                                                                                                                                                                                                                                                                                  | Suppresses all messages to stdout, including prompts.                                                |
|                      | -v                                                                                                                                                                                                                                                                                                                  | Displays a detailed message of initial diagnosis.                                                    |
|                      | -y                                                                                                                                                                                                                                                                                                                  | Automatically answers "y" (yes) to all prompts.                                                      |
|                      | The following operand is supported:                                                                                                                                                                                                                                                                                 |                                                                                                      |
|                      | <i>location</i>                                                                                                                                                                                                                                                                                                     | Specifies only one PSB number. An integer from 00–15 can be specified.                               |
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"><li>■ When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.</li></ul>                                                                                |                                                                                                      |
|                      | <ul style="list-style-type: none"><li>■ The PSB must not be configured in the domain, or the domain in which the PSB is configured must be powered off. To verify that all domains are powered off, execute the <code>showlogs power</code> command and look for the value <code>System Power Off</code>.</li></ul> |                                                                                                      |



- When the system board (XSB) belonging to the specified PSB is in any status below, the testsb(8) command results in an error.
  - XSB is installed in the domain and this domain is in operation.
  - XSB is installed in the domain and this domain is in OpenBoot PROM (ok> prompt) status.
  - XSB is installed in the domain and this domain is power ON status, power OFF status, or reboot status.
  - The addboard(8), deleteboard(8), or moveboard(8) command is executed for XSB.
- In case an XSB which belongs to the specified PSB is in Unmount or Faulted status, it may be excluded from the target of diagnosis and may not be shown in the diagnosis result. In a case like this, use the showboards(8) command to check the diagnosis result.
- In case there are the settings for the warm-up time of the system and the wait time before system startup, a prompt appears to confirm whether or not it can ignore these settings to execute the testsb(8) command. Enter "y" to execute the command or "n" to cancel the command.

■ The displayed diagnostic results of the testsb(8) command are as follows:

|       |                                                                                                                                                          |                                                                                                      |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| XSB   | XSB numbers belonging to the specified PSBs. One XSB number is displayed for the Uni-XSB type, and four XSB numbers are displayed for the Quad-XSB type. |                                                                                                      |
| Test  | Status of the initial diagnosis of XSBs. One of the following status values is displayed:                                                                |                                                                                                      |
|       | Unmount                                                                                                                                                  | No XSB could be recognized because no XSB is mounted or because an error occurred.                   |
|       | Unknown                                                                                                                                                  | Not tested.                                                                                          |
|       | Testing                                                                                                                                                  | Initial diagnosis is in progress.                                                                    |
|       | Passed                                                                                                                                                   | Initial diagnosis ended normally.                                                                    |
|       | Failed                                                                                                                                                   | An error was detected during the initial diagnosis. An XSB cannot be used or is in a degraded state. |
| Fault | XSB error. One or more states are displayed:                                                                                                             |                                                                                                      |
|       | Normal                                                                                                                                                   | Normal state.                                                                                        |
|       | Degraded                                                                                                                                                 | One or more components are degraded. Each XSB can operate.                                           |
|       | Faulted                                                                                                                                                  | An XSB cannot operate because an error occurred.                                                     |

EXAMPLES

**EXAMPLE 1** Performs the initial diagnosis on PSB#00.

```
XSCF> testsb 0
Initial diagnosis is about to start, Continue?[y|n] :y
SB#00 power on sequence started.
0.end
Initial diagnosis started. [1800sec]
0..... 30..... 60..... 90.....120end
Initial diagnosis has completed.
SB power off sequence started. [1200sec]
0.end
SB powered off.
XSB Test Fault
---- -
00-0 Passed Normal
00-1 Passed Normal
00-2 Passed Normal
00-3 Passed Normal
```

**EXAMPLE 2** Performs an initial diagnosis of PSB#01 with detailed messages displayed.

```
XSCF> testsb -v 1
Initial diagnosis is about to start. Continue? [y|n] :y
SB#01 powered on sequence started.
:
:
:
Initial diagnosis has completed.
{0} ok SB power off sequence started. [1200sec]
0.end
SB powered off.
XSB Test Fault

01-0 Passed Normal
```

**EXAMPLE 3** Performs the initial diagnosis on all the PSB that are mounted.

```
XSCF> testsb -c all
Initial diagnosis is about to start. Continue? [y|n] :y
SB power on sequence started.
0end
Initial diagnosis started. [1800sec]
0..... 30..... 60..... 90.....120end
Initial diagnosis has completed.
SB power off sequence started. [1200sec]
0.end
SB powered off.
XSB Test Fault

00-0 Passed Normal
01-0 Passed Normal
02-0 Passed Normal
03-0 Passed Normal
```

**EXAMPLE 4** Ignores the settings for the warm-up time of the system and the wait time before system startup to perform the initial diagnosis on the PSB that are mounted.

```
XSCF> testsb -c all
Initial diagnosis is about to start. Continue? [y|n] :y
Ignore warmup-time and air-conditioner-wait-time, Continue?[y|n] :y
SB power on sequence started.
0end
Initial diagnosis started. [1800sec]
0..... 30..... 60..... 90.....120end
Initial diagnosis has completed.
```

testsb(8)

```
SB power off sequence started. [1200sec]
0.end
SB powered off.
XSB Test Fault

00-0 Passed Normal
01-0 Passed Normal
02-0 Passed Normal
03-0 Passed Normal
```

**EXIT STATUS**

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

**SEE ALSO**

**addfru(8), deletefru(8), replacefru(8), setupfru(8), showboards(8), showfru(8)**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |                  |                                                                                                                               |    |                                                     |                |                                                                                                                                  |                    |                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------|
| NAME               | traceroute - display the route packets take to the specified network host or the network device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |                  |                                                                                                                               |    |                                                     |                |                                                                                                                                  |                    |                                                                                            |
| SYNOPSIS           | <b>traceroute</b> [-n] [-r] [-v] [-m <i>maxttl</i> ] [-p <i>port</i> ] [-q <i>nqueries</i> ] [-s <i>src_addr</i> ] [-w <i>wait</i> ] <i>host</i><br><br><b>traceroute</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                                                                                      |                  |                                                                                                                               |    |                                                     |                |                                                                                                                                  |                    |                                                                                            |
| DESCRIPTION        | <p>The <code>traceroute(8)</code> command displays the route packets take to the specified network host or the network device.</p> <p>The route packets take indicates the router (gateway) which interconnects the specified host or the network device, and indicates what kind of the routers located on the route.</p> <p>The <code>traceroute(8)</code> command uses the TTL field of IP protocol and tries to elicit the ICMP TIME_EXCEEDED responses from every gateway on the route packets take to the specified network host or the network device.</p>                                                                                                                                                                                    |    |                                                                                      |                  |                                                                                                                               |    |                                                     |                |                                                                                                                                  |                    |                                                                                            |
| Privileges         | <p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none"><li>■ To execute the command to "localhost" or to the loopback address (127.0.0.0/8):<br/>fieldeng</li><li>■ To execute the command to Inter SCF Network (ISN):<br/>fieldeng</li><li>■ The case other than those above:<br/>No privileges are required.</li></ul> <p>Refer to <code>setprivileges(8)</code> for more information.</p>                                                                                                                                                                                                                                                                                                    |    |                                                                                      |                  |                                                                                                                               |    |                                                     |                |                                                                                                                                  |                    |                                                                                            |
| OPTIONS            | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-m <i>maxttl</i></td><td>Specifies the maximum number of hops. It displays the gateways for the number of hops specified. If omitted, it is set to 30.</td></tr><tr><td>-n</td><td>With no reverse DNS lookup, outputs the IP address.</td></tr><tr><td>-p <i>port</i></td><td>Specifies the port number of the UDP packet to be used. Valid only in case using the UDP packet. If omitted, it is set to 33434.</td></tr><tr><td>-q <i>nqueries</i></td><td>Specifies the number of retries to a single gateway. If omitted, it is set to three times.</td></tr></table> | -h | Displays usage statement. When used with other options or operands, an error occurs. | -m <i>maxttl</i> | Specifies the maximum number of hops. It displays the gateways for the number of hops specified. If omitted, it is set to 30. | -n | With no reverse DNS lookup, outputs the IP address. | -p <i>port</i> | Specifies the port number of the UDP packet to be used. Valid only in case using the UDP packet. If omitted, it is set to 33434. | -q <i>nqueries</i> | Specifies the number of retries to a single gateway. If omitted, it is set to three times. |
| -h                 | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                                                                                      |                  |                                                                                                                               |    |                                                     |                |                                                                                                                                  |                    |                                                                                            |
| -m <i>maxttl</i>   | Specifies the maximum number of hops. It displays the gateways for the number of hops specified. If omitted, it is set to 30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                                                                                      |                  |                                                                                                                               |    |                                                     |                |                                                                                                                                  |                    |                                                                                            |
| -n                 | With no reverse DNS lookup, outputs the IP address.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                                                                                      |                  |                                                                                                                               |    |                                                     |                |                                                                                                                                  |                    |                                                                                            |
| -p <i>port</i>     | Specifies the port number of the UDP packet to be used. Valid only in case using the UDP packet. If omitted, it is set to 33434.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                      |                  |                                                                                                                               |    |                                                     |                |                                                                                                                                  |                    |                                                                                            |
| -q <i>nqueries</i> | Specifies the number of retries to a single gateway. If omitted, it is set to three times.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                                                                                      |                  |                                                                                                                               |    |                                                     |                |                                                                                                                                  |                    |                                                                                            |

|                                 |                                                                                                                                                                                                                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-r</code>                 | Bypasses the routing table and directly sends the packet to the specified network host or the network device. If the desired host or the network device is not on the same physical network, it results in errors. |
| <code>-s <i>src_addr</i></code> | Specifies the source address to start tracking the route.                                                                                                                                                          |
| <code>-v</code>                 | Displays verbose output. The size of the sending packet will be displayed.                                                                                                                                         |
| <code>-w <i>wait</i></code>     | Specifies the timeout period in units of seconds. If omitted, it is set to 3 seconds.                                                                                                                              |

**OPERANDS**

The following operand is supported:

|             |                                                                                                                                                                       |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>host</i> | Specifies the network host or the network device to send the packet. Can be specified with host name or IP address. If a DSCP address is specified, an error results. |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**EXAMPLES**

**EXAMPLE 1** Displays the route packets take to the host named server.example.com.

```
XSCF> tracert server.example.com
tracert to server.example.com (XX.XX.XX.XX), 30 hops max, 40 byte
packets
 1 XX.XX.XX.1 (XX.XX.XX.1) 1.792 ms 1.673 ms 1.549 ms
 2 XX.XX.XX.2 (XX.XX.XX.2) 2.235 ms 2.249 ms 2.367 ms
 3 XX.XX.XX.3 (XX.XX.XX.3) 2.199 ms 2.228 ms 2.361 ms
 4 XX.XX.XX.4 (XX.XX.XX.4) 2.516 ms 2.229 ms 2.357 ms
 5 XX.XX.XX.5 (XX.XX.XX.5) 2.546 ms 2.347 ms 2.272 ms
 6 server.example.com (XX.XX.XX.XX) 2.172 ms 2.313 ms 2.36 ms
```

**EXAMPLE 2** Displays the detailed route packets take to the host named server.example.com. (XSCF-LAN=192.168.100.10)

```
XSCF> tracert -v server.example.com
tracert to server.example.com (XX.XX.XX.XX), 30 hops max, 40 byte
packets
 1 XX.XX.XX.1 36 bytes to 192.168.100.10 1.792 ms 1.673 ms 1.549 ms
 2 XX.XX.XX.2 36 bytes to 192.168.100.10 2.235 ms 2.249 ms 2.367 ms
 3 XX.XX.XX.3 36 bytes to 192.168.100.10 2.199 ms 2.228 ms 2.361 ms
 4 XX.XX.XX.4 36 bytes to 192.168.100.10 2.516 ms 2.229 ms 2.357 ms
 5 XX.XX.XX.5 36 bytes to 192.168.100.10 2.546 ms 2.347 ms 2.272 ms
 6 server.example.com 48 bytes to 192.168.100.10 2.172 ms 2.313 ms 2.36
ms
```

|             |                                         |
|-------------|-----------------------------------------|
| EXIT STATUS | The following exit values are returned: |
| 0           | Successful completion.                  |
| >0          | An error occurred.                      |

traceroute(8)





|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|----|------------------------------------------------|----|-------------------------------------------------------|----|-------------------------------------------------|
| NAME                 | unlockmaintenance - forcibly release the locked status of XSCF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| SYNOPSIS             | <b>unlockmaintenance</b> [[-q] {-y -n}]<br><b>unlockmaintenance</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| DESCRIPTION          | <p>unlockmaintenance(8) command releases the locked status of XSCF forcibly.</p> <p>Normally, while the maintenance command addfru(8), deletefru(8), or replacefru(8) is in execution, XSCF is in the locked status. After the command complete, the lock is released. However, in case an error such as LAN disconnection occurred while executing any of the maintenance command, the XSCF lock may become unable to release. In such a case, you can execute the unlockmaintenance(8) command to forcibly release the locked status of XSCF.</p> |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| Privileges           | <p>You must have fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| OPTIONS              | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-n</td><td>Automatically answers "n" (no) to all prompts.</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td>-y</td><td>Automatically answers "y" (yes) to all prompts.</td></tr></table>                                                                                                                               | -h | Displays usage statement. When used with other options or operands, an error occurs. | -n | Automatically answers "n" (no) to all prompts. | -q | Suppresses all messages to stdout, including prompts. | -y | Automatically answers "y" (yes) to all prompts. |
| -h                   | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| -n                   | Automatically answers "n" (no) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| -q                   | Suppresses all messages to stdout, including prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| -y                   | Automatically answers "y" (yes) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| EXTENDED DESCRIPTION | <p>When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.</p>                                                                                                                                                                                                                                                                                                                                                           |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| EXAMPLES             | <p><b>EXAMPLE 1</b>    Unlocks the maintenance lock status.</p> <pre>XSCF&gt; <b>unlockmaintenance</b></pre> <p>This command unlocks the maintenance lock which prevents the multiple execution of maintenance commands.</p> <p>*Never* use this command, except when the lock state remains by some reason.</p> <p>Careless execution of this command causes serious situation because it interrupts the running command and XSCF might not be able to recognize the parts.</p> <p>Continue? [y n] :<b>y</b></p>                                   |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |

**EXAMPLE 2** Unlocks the maintenance lock status. Automatically answers "y" to all prompts.

```
XSCF> unlockmaintenance -y
```

This command unlocks the maintenance lock which prevents the multiple execution of maintenance commands.

\*Never\* use this command, except when the lock state remains by some reason.

Careless execution of this command causes serious situation because it interrupts the running command and XSCF might not be able to recognize the parts.

```
Continue? [y|n] :y
```

**EXAMPLE 3** Unlocks the maintenance lock status. Suppresses prompts, and automatically answers "y" to all prompts.

```
XSCF> unlockmaintenance -q -y
```

```
XSCF>
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

## SEE ALSO

**addfru (8), deletefru (8), replacefru (8)**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------|---------|----------------------------------------|----|--------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------|
| NAME        | version - display firmware version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| SYNOPSIS    | <b>version</b> -c xcp [-v] [-t]<br><b>version</b> -c {cmu   xscf} -v<br><b>version</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| DESCRIPTION | <p>The <code>version(8)</code> command displays firmware version.</p> <p>The following versions can be displayed:</p> <table><tr><td>xcp</td><td>The comprehensive version of the XSCF control package (XCP) firmware currently applied to the system.</td></tr><tr><td>cmu</td><td>The version of OpenBoot PROM firmware.</td></tr><tr><td>xscf</td><td>The version of XSCF firmware.</td></tr></table>                                                                                                                                                                                                                                                                                                | xcp    | The comprehensive version of the XSCF control package (XCP) firmware currently applied to the system. | cmu    | The version of OpenBoot PROM firmware.          | xscf    | The version of XSCF firmware.          |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| xcp         | The comprehensive version of the XSCF control package (XCP) firmware currently applied to the system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| cmu         | The version of OpenBoot PROM firmware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| xscf        | The version of XSCF firmware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| Privileges  | <p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-c xcp</td><td>Displays the XCP version.</td></tr><tr><td>-c cmu</td><td>Displays the version of OpenBoot PROM firmware.</td></tr><tr><td>-c xscf</td><td>Displays the version of XSCF firmware.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-t</td><td>Displays information of the XCP version that is registered in the XSCF. This option is used together with "-c xcp".</td></tr><tr><td>-v</td><td>Displays detailed information. Specifying this option with "-c xscf" displays the same information as the usual information.</td></tr></table> | -c xcp | Displays the XCP version.                                                                             | -c cmu | Displays the version of OpenBoot PROM firmware. | -c xscf | Displays the version of XSCF firmware. | -h | Displays usage statement. When used with other options or operands, an error occurs. | -t | Displays information of the XCP version that is registered in the XSCF. This option is used together with "-c xcp". | -v | Displays detailed information. Specifying this option with "-c xscf" displays the same information as the usual information. |
| -c xcp      | Displays the XCP version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| -c cmu      | Displays the version of OpenBoot PROM firmware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| -c xscf     | Displays the version of XSCF firmware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| -h          | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| -t          | Displays information of the XCP version that is registered in the XSCF. This option is used together with "-c xcp".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| -v          | Displays detailed information. Specifying this option with "-c xscf" displays the same information as the usual information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| EXAMPLES    | <p><b>EXAMPLE 1</b> Displays the XCP version.</p> <pre>XSCF&gt; <b>version -c xcp</b><br/>XSCF#0 (Active)<br/>XCP0 (Current): 1090<br/>XCP1 (Reserve): 1090<br/>XSCF#1 (Standby)<br/>XCP0 (Current): 1090<br/>XCP1 (Reserve): 1090</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |

**EXAMPLE 2** Displays the details of the XCP version.

```
XSCF> version -c xcp -v
XSCF#0 (Active)
XCP0 (Current): 1082
OpenBoot PROM : 02.09.0000
XSCF : 01.08.0005
XCP1 (Reserve): 1082
OpenBoot PROM : 02.09.0000
XSCF : 01.08.0005
XSCF#1 (Standby)
XCP0 (Current): 1082
OpenBoot PROM : 02.09.000
XSCF : 01.08.0005
XCP1 (Reserve): 1082
OpenBoot PROM : 02.09.0000
XSCF : 01.08.0005
OpenBoot PROM BACKUP
#0: 02.08.0000
#1: 02.09.0000
```

**EXAMPLE 3** Displays the XCP version that is registered in the XSCF.

```
XSCF> version -c xcp -t
XCP: 1090
```

**EXAMPLE 4** Displays the details of the XCP version that is registered in the XSCF.

```
XSCF> version -c xcp -v -t
XCP: 1082
OpenBoot PROM : 02.09.0000
XSCF : 01.08.0005
```

**EXAMPLE 5** Displays the version of OpenBoot PROM firmware.

```
XSCF> version -c cmu
DomainID 0: 02.09.0000
DomainID 1: 02.09.0000
DomainID 2: 02.09.0000
DomainID 3: 02.09.0000
:
DomainID 23: 02.09.0000
```

**EXAMPLE 6** Displays the detailed version of OpenBoot PROM firmware.

```
XSCF> version -c cmu -v
DomainID 0: 02.09.0000
DomainID 1: 02.09.0000
```

```
DomainID 2: 02.09.0000
DomainID 3: 02.09.0000
:
DomainID 23: 02.09.0000
XSB#00-0: 02.09.0000(Current) 02.07.0000(Reserve)
XSB#00-1: 02.09.0000(Current) 02.07.0000(Reserve)
XSB#00-2: 02.09.0000(Current) 02.07.0000(Reserve)
XSB#00-3: 02.09.0000(Current) 02.07.0000(Reserve)
:
XSB#15-3: 02.09.0000(Current) 02.07.0000(Reserve)
```

**EXAMPLE 7**     Displays the detailed version of XSCF firmware.

```
XSCF> version -c xscf -v
XSCF#0 (Active)
01.08.0005(Reserve) 01.08.0005(Current)
XSCF#1 (Standby)
01.08.0005(Current) 01.08.0005(Reserve)
```

**EXIT STATUS**

The following exit values are returned:

- 0                      Successful completion.
- >0                    An error occurred.



|             |                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | viewaudit - display audit records                                                                                                                                                                                                                                                                                                                                                                      |
| SYNOPSIS    | <p><b>viewaudit</b></p> <p><b>viewaudit</b> [-A <i>date-time</i>] [-B <i>date-time</i>] [-C] [ -c <i>classes</i>] [-D <i>date-time</i>] [-E <i>end-record</i>] [-e <i>events</i>] [-i <i>audit-ids</i>] [-l] [-m <i>del</i>] [-n] [-p <i>privilege-results</i>] [-r <i>return-values</i> ] [-s <i>start-record</i>] [-u <i>users</i>] [-x]</p> <p><b>viewaudit</b> -h</p>                              |
| DESCRIPTION | <p>viewaudit(8) displays audit records. When invoked without options, viewaudit displays all current local audit records. When invoked with options, viewaudit displays only the selected records. By default, records are displayed in text format, one token per line, with a comma as the field separator. The output can be modified using the -C, -E, -l,-m <i>del</i>, -n, -S, or -x option.</p> |
| Privileges  | <p>You must have auditadm or auditop privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                        |

**OPTIONS**

The following options are supported:

**-A *date-time***

Selects records that occurred at or after *date-time*. The *date-time* argument is in local time. the -A and -B options can be used together to form a range. Valid values for *date-time* are:

Absolute *date-time* : *yyyymmdd[hh[mm[ss]]]*

where:

*yyyy* = year (1970 is the earliest valid value)

*mm* = month (01-12)

*dd* = day (01-31)

*hh* = hour (00-23)

*mm* = minutes (00-59)

*ss* = seconds (00-59)

The default value is 00 for *hh*, *mm*, and *ss*.

**-B *date-time***

Selects records that occurred before *date-time*. The *date-time* argument is in local time. the -A and -B options can be used together to form a range. Valid values for *date-time* are either absolute or offset:

Absolute *date-time* : *yyyymmdd[hh[mm[ss]]]*

where:

*yyyy* = year (1970 is the earliest valid value)

*mm* = month (01-12)

*dd* = day (01-31)

*hh* = hour (00-23)

*mm* = minutes (00-59)

*ss* = seconds (00-59)

Offset *date-time*: *+n d|h|m|s*

where:

*n* = number of units

*d* = days

*h* = hours

*m* = minutes

*s* = seconds

Offset is only available with the -B option and must be used with -A.

(The default value is 00 for *hh*, *mm* and *ss*.)

**-C**

Appends the number of records that matched the selection criteria to the end of the output.



*-c classes*

Selects records in indicated classes. *classes* is a comma-separated list of audit classes. A class may be specified by its numeric value or its name. The ACS\_ prefix may be omitted. For example, the class of audit related events can be expressed as ACS\_AUDIT, AUDIT or 16.

The following are valid classes:

|                   |                                    |
|-------------------|------------------------------------|
| all               | Denotes all classes.               |
| ACS_SYSTEM(1)     | System-related events              |
| ACS_WRITE(2)      | Commands that can modify a state   |
| ACS_READ(4)       | Commands that read a current state |
| ACS_LOGIN(8)      | Login-related events               |
| ACS_AUDIT(16)     | Audit-related events               |
| ACS_DOMAIN(32)    | Domain management-related events   |
| ACS_USER(64)      | User management-related events     |
| ACS_PLATFORM(128) | Platform management-related events |
| ACS_MODES(256)    | Mode-related events                |

*-D date-time*

Selects records that occurred on a specific day (a 24-hour period beginning at 00:00:00 of the day specified and ending at 23:59:59). The day specified is in local time in the following format: *yyyymmddhhmmss* (year,month,day, hour,minute,second). The time portion of the argument, if supplied, is ignored. Any records with timestamps during that day are selected. If any hours, minutes, or seconds are given, they are ignored. -D cannot be used with -A or -B.

*-E end-record*

Selects the last record matching the selection criteria to display.

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-e events</code>            | <p>Selects records of the indicated events. <i>events</i> is a comma-separated list of audit events. An event may be specified by its numeric value or its name. The <i>AEV_</i> prefix may be omitted. For example, the event for SSH login can be expressed as <i>AEV_LOGIN_SSH</i>, <i>LOGIN_SSH</i> or 4.</p> <p>See <code>showaudit -e all</code> for a list of valid events.</p>                                                                                                                                                                                                                                                            |
| <code>-h</code>                   | <p>Displays usage statement.</p> <p>When used with other options or operands, an error occurs.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <code>-i audit-ids</code>         | <p>Selects records of the indicated audit session identifier. If you become interested in activity reflected in a particular audit record, you might wish to view all the audit records for that session. An <i>audit-id</i> is not persistent and can be reassigned across resets of the Service Processor. <i>audit-ids</i> is a comma-separated list of audit session identifiers. The <i>audit-id</i> is the number following the label <i>subject</i> in an audit file.</p> <p>For example, in the following listing, the <i>audit-id</i> is 1 (shown in boldface for emphasis).</p> <p><b>subject,1,bob,normal,telnet 45880 jupiter</b></p> |
| <code>-l</code>                   | Prints one line per record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <code>-m del</code>               | Uses <i>del</i> as the field delimiter instead of the default delimiter, which is the comma. If <i>del</i> has special meaning for the shell, it must be quoted. The maximum size of a delimiter is three characters. The delimiter is not meaningful and is not used with the <code>-x</code> option.                                                                                                                                                                                                                                                                                                                                            |
| <code>-n</code>                   | Specifies that UIDs and IP addresses should not be converted to user names or host names.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <code>-p privilege-results</code> | Select records according to the indicated <i>privilege-results</i> . <i>privilege-results</i> is a comma-separated list. <i>privilege-results</i> are: granted, denied, or error.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <code>-r return-values</code>     | Selects records according to the indicated return values. <i>returnvals</i> is a comma-separated list of the values: success, or failure. success corresponds to a return value of 0. failure corresponds to a nonzero return value.                                                                                                                                                                                                                                                                                                                                                                                                              |

|                              |                                                                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-S start-record</code> | Selects the first record matching the selection criteria to display.                                                                                 |
| <code>-u users</code>        | Selects records attributed to indicated users. <i>users</i> is a comma-separated list of users. A user can be specified by user name or numeric UID. |
| <code>-x</code>              | Prints in XML format.                                                                                                                                |

## EXAMPLES

### EXAMPLE 1 Displaying Audit Records for December 12, 2005

```
XSCF> viewaudit -D 20051212
```

```
file,1,2006-01-11 10:52:30.391 -05:00,20060111155230.0000000000.jupiter
```

### EXAMPLE 2 Displaying User Audit Records

```
XSCF> viewaudit -u jsmith
```

```
file,1,2006-01-11 10:52:30.391 -05:00,20060111155230.0000000000.jupiter
header,37,1,login - telnet,jupiter,2006-01-11 11:31:09.659 -05:00
subject,1,jsmith,normal,ssh 45880 jupiter
command,showuser
platform access,granted
return,0
```

### EXAMPLE 3 Displaying Audit Records for Privileges

```
XSCF> viewaudit -p granted
```

```
file,1,2006-01-11 10:52:30.391 -05:00,20060111155230.0000000000.jupiter
header,37,1,login - telnet,jupiter,2006-01-11 11:31:09.659 -05:00
subject,1,jsmith,normal,ssh 45880 jupiter
command,showuser
platform access,granted
return,0
```

### EXAMPLE 4 Displaying Audit Records for Successful Access

```
XSCF> viewaudit -r success
```

```
file,1,2006-01-11 10:52:30.391 -05:00,20060111155230.0000000000.jupiter
header,37,1,login - telnet,jupiter,2006-01-11 11:31:09.659 -05:00
subject,1,jsmith,normal,ssh 45880 jupiter
command,showuser
platform access,granted
return,0
```

```

header,57,1,command - viewaudit,jupiter.company.com,2006-01-26
16:13:09.128 -05:00
subject,5,sue,normal,ssh 1282 saturn
command,viewaudit
platform access,granted
return,0
...

```

#### EXAMPLE 5 Displaying Audit Records Within a Range of Two Days

```
XSCF> viewaudit -A 20080108 -B +2d
```

```

file,1,2008-01-09 20:12:12.968 -08:00,20080110041212.0000000004.sca-m5k-
0-0
file,1,2008-01-10 21:14:49.481 -08:00,terminated
file,1,2008-01-10 21:14:49.485 -08:00,20080111051449.0000000005.sca-m5k-
0-0

```

#### EXAMPLE 6 Displaying First 5 Records (of 4238) that Match a Date Range

```
XSCF> viewaudit -l -A 20070515 -B 20080110 -C -S 1 -E 5
```

```

file,1,2008-01-09 20:12:12.968 -08:00,20080110041212.0000000004.sca-m5k-
0-0
header,63,1,command - setaudit,sca-m5k-0-0.sfbay.sun.com,2008-01-09
20:12:12.974 -08:00,s subject,250,opl,normal,ssh 42759 san-e4900-
0.West.Sun.COM,command,setaudit,delete,platform access,granted,return,0
header,37,1,login - ssh,sca-m5k-0-0.sfbay.sun.com,2008-01-09
20:12:14.455 -
08:00,subject, 252,scfroot,normal,ssh 42761 san-e4900-0.West.Sun.COM
header,37,1,logout,sca-m5k-0-0.sfbay.sun.com,2008-01-09 20:12:14.800 -
08:00,subject,250,o pl,normal,ssh 42759 san-e4900-0.West.Sun.COM
header,37,1,login - ssh,sca-m5k-0-0.sfbay.sun.com,2008-01-09
20:12:15.595 -
08:00,subject, 253,scfroot,normal,ssh 42762 san-e4900-0.West.Sun.COM
4238

```

#### EXIT STATUS

The following exit values are returned:

```

0 Successful completion.
>0 An error occurred.

```

#### SEE ALSO

**setaudit(8)**, **showaudit(8)**