

shaping tomorrow with you

SPARC/Solaris GUI Management Guide

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Fujitsu Limited



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Introduction

About This Guide

- This Guide describes the step-by-step procedures for server management of the XSCF Web Console and Oracle Enterprise Manager Ops Center (hereinafter, Ops Center).
- For details of XSCF, please refer to the related manuals via the link below. <u>http://www.fujitsu.com/global/products/computing/servers/unix/sparc/downloads/manuals/m10-1/</u>
 - Fujitsu M10/SPARC M10 System Operation and Administration Guide
 - Product Notes Archive
- For information relating to the Ops Center, please refer to the related manual via the link below.

http://docs.oracle.com/cd/E40871_01/index.htm

Notice

- Oracle Solaris may be referred to as Solaris.
- Oracle Solaris Zone may be referred to as Zone, or non-global zone.
- Oracle VM Server for SPARC may be referred to as Oracle VM.
- Enterprise Controller may be referred to as EC, Proxy Controller as PC, and Agent Controller as AC.



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1. Overview

This document explains the server management operations and procedures that are available using a web browser, focusing on the functional range of the XSCF Web Console and Ops Center.

1-1.Requirements

- Prior to using the XSCF Web Console, you must:
 - 1) Register for an XSCF user account.
 - 2) Enable the HTTPS service.
 - 3) Register the web server certificate in the HTTPS service settings.

For further details please see the link below.

http://www.fujitsu.com/global/products/computing/servers/unix/sparc/downloads/manuals/m 10-1/

- Fujitsu M10/SPARC M10 System Operation and Administration Guide

1-2.Important Notice

• This guide details procedures that may be implemented on the following products: EC/PC:Oracle Solaris 11.1(SRU13121(11.1.14.5.0), ESF5.0)

AC(M10-1): Oracle Solaris 11.1(SRU13121(11.1.14.5.0), ESF5.1), XCP2092

AC(T4-4): Oracle Solaris 11.1(SRU13121(11.1.14.5.0), ESF5.0)

- SRU14041(11.1.18.5.0) or later is recommended. If a prior version to the SRU14031 (11.1.17.5.0) is used, the EC or PC may not function properly.
- Please use the correct numerical setting according to your system environment. The numerical settings written in this document are examples.
- The OS and XSCF commands provide examples of how to perform the same operations on the CLI.



1-3.The User Interface

1-3-1. The XSCF Web Console User Interface

VERSION User xsd [®] Server xsd [®] -hostnam_or XSCF Web Consol	e Masthead Fra	Last Update: Tue Apr 15 14:03:45 JST 2014 ShowHide Monitor Message
Menu Physical Logical	System Overview	
XSCF Status PPAR Operation Postings Maintenance	System Overview System Overview	Main Frame
- Logs	System Overview	
	Parameter	Status
	Product Name	SPARC M10-1
Menu Frame	Serial	TZ01238024
	System mode switch status	Locked
	System Power	On
	Cystem Phase	Catinet Power On
Log Monitor PPAR Monitor		Event Frame
Log Monitor Message		
Refresh Interval: 30 sec -		
Date	Message	
Mar 28 16:58:36	xsd0-hostname Event. SCF:PPARID 0 GID 00000001 state	change (Solaris running)

1-3-2 The Ops Center Interface





1-4.How to Log In

- 1-4-1.How to Log In to the XSCF Web Console(Via Designated URL)
 - ${\bf 1}$) Open the browser and type in the following address to display the page.

https://IP address/

- The IP Address should be for the corresponding XSCF.
- 2) Enter the User Name and Password and press the Log In button.
 - If login is successful, the default XSCF console screen will be displayed.

VERSION		
	Java- Rowtheo	
XSCF Web Console		
User Name: Password:		
Login		
20 REDEREDERED		
	FUJITSU	

1-4-2. How to Log In to the Ops Center

1) Open the browser, and enter the address below. If successful, the login screen will be displayed.

http://IP address/

- The address of the server on which Ops Center has been installed.
- 2) Enter the user name and password and press the Log in button.

- If login is successful, the Ops Center page will be displayed.

ORACLE	
Enterprise Manager	
Ops Center 12c	
	Login to Oracle Enterprise Manager Ops Center
	octest-srv2
	User Name 1
	Password
	* Source Ops Center Local -
	Log In



1 - 4 - 3 Accessing the XSCF Web Console from the Ops Center

- 1) In the Navigation Pane, go to Assets and select the relevant server.
- 2) In the Actions Pane, go to Operate and select Launch SP Controller.



- 3) Enter the user name and password and press the Log In button.
 - If login was successful, the XSCF Web Console screen will be displayed.

VERSION		
	Java-	
XSCF Web Console		
Password: Log In		
	ເບງິກຣນ ດາຈລະແຂ	



2. Virtual Environment Configuration

2 - 1 .Oracle VM Server for SPARC

2 - 1 - 1 . Guest Domain Configuration

Configure an Oracle VM guest domain.

(Refer to the "Ops Center 12c Release 2 System Configuration Guide for further details.)

Application: Ops Center

Relevant OS Command: Idm(1M)

Operation Procedure

Preliminary Operation: to configure the control domain of the server, the Oracle VM Agent Controller must be installed.

(See: Installing the Agent Controller in Appendix-1.)

1) In the Navigation Pane, go to Plan Management. Under Profiles and Policies, select Logical Domain.

2) In the Actions Pane, go to Organize. Select **Create Profile**, and create a profile following the instructions in the Create Logical Domain Profile Wizard.





3) In the Navigation Pane, go to Plan Management. From Deployment Plans, select **Create Logical Domains**.

4) Select the Oracle VM profile that you created, click **Apply Deployment Plan** and create the guest domain following the instructions in the Create guest domain Wizard.

434 4A1 234 2	•			R. All Assets	
Navigation	Z Create Logical Domains			Si eo Action	•
≥ Hessage Center ≥ Assets ≤ Plan Hanagement	Target Type: Oracle VM Server for 5 Template Name: Create Logical Domains	IPARC Rel	Versioe: 2 ease Date: 02/21/2014 7:56 16 pm GMT	😒 Organ	nize te Plan from Template
\$	Description: Creates Logical Domain	8			
Deployment Plans	Deployment Template Composition				
Configure RAD	Step	Required input	Required Profile/Plan		
🗃 🔀 Configure Server Hardwari	Create Logical Domains	profile	Logical Domain Profile		
Configure Service Process	🖂 Deployment To From Template (1	1)		_	
Configure and Install Lopics	× 📓 🔒 🗴		Search •	× P	
Configure and Install Orack	Plan Name + 4 Version Tar	get Type Description	Failure Policy Last Modified		
3 ale Boot Environment	T4-4_LDOM2-plan 2 Ori	cle VM Ser Created from	p Stop at failure 02/07/2014 10:36:53 am Ol	π	
Ante Duranie System De to Create Logical Domans a Create Create Solaris Zone * b Literates 2 Literates 2 Reports 2 Networks					

Verification: Check that the registered guest domain is displayed under Assets in the Navigation Pane.



2 - 1 - 1.OS Installation

Installing the OS onto a guest domain.

(Refer to the "Ops Center 12c Release 2 System Configuration Guide" for further details)

Application: Ops Center

Relevant OS Command: installadm(1M)

Operation Procedure

Preliminary Operation: Execute "2-1-1. Guest Domain Construction"

1) In the Navigation Pane, go to Plan Management. From Profiles and Policies, select **OS Provisioning**.

2) In the Actions Pane, go to Organize, select **Create Profile**, and create a profile following instructions in the OS Provisioning Wizard.

- Select the "Create a deployment plan for this profile" option. This is the default option. If this option is not selected, the plan will not be automatically created.

ORACLE Enterprise Man	ager Ops Cen	ter 12c	octes	st-srv2		Setup	 Help 12 ro 	iot Logout 🐻 📿
4234 4267 2230 23	•						Al Assets	
Navigation	🔢 OS Provisi	oning Profiles				🛯 🖉 🛱	eo 🔉 Actions	
2 Message Center							😒 Organiz	2
≥ Assets	😒 OS Provis	ioning Profiles ((33)				Create F	rofie
🕑 Plan Management	1 8 8	×						
	Name .	Description	Subtype	Target Type	V	Last Modified		
🕀 📶 Update Storage Appliances	T4-4_LD0M1		Logical Domain	VirtuaMachine	1	02/25/2014		
Profiles and Policies	T4-4_LD0M2		Logical Domain	VirtuaMachine	1	02/07/2014		
III Service Processor	T4-4_LDOM3		Logical Domain	VirtuaMachine	1	03/11/2014 1		
3 E RAD Controller	athena1-06		Logical Domain	VirtuaMachine	1	01/27/2014	41 I	
B Frmware 1	athena1-06		Logical Domain	VirtuaMachine	1	01/30/2014		
Dynamic Syst	athena1-06		Logical Domain	VirtuaMachine	1	01/27/2014		
S Previsioning	default-profit	Default OS P	Solaris SPARC	OSP SPARC	1	01/22/2014		
Oracle Solaris Zone	default-profit	Default OS P	Solaris SPARC	OSP SPARC	1	01/22/2014		
Virtual Machine	default-profit	Defaut OS P	Solaris SPARC	OSP SPARC	1	01/22/2014		
BIOS Configuration	defaut-profil	Default OS P	Solaris x86	OSP x86	1	01/22/2014		



3) In the Navigation Pane, go to Plan Management. From Profiles and Policies, select **OS Configuration**.

4) In the Actions Pane, go to Organize, select **Create Profile**, and create a profile following the instructions in the Wizard.

🗱 4 🐴 7 🛛 🧏 0 👎	0	uration Profile	-			1	Al Assets	tions
> Message Center								lenanize (
2) Assets	S Config	uration Profiles	(9)					Create Profile
🗹 Plan Management	188	×			Search -	×	0	
S Los Update Storage Applances	Name .	Description	Subtype	Target Type	V	Last Modified		
E Profiles and Policies	T4-4_LDOM1		Logical Domain	VirtuaMachine	1	02/25/2014		
Discovery	T4-4_LD0M2		Logical Domain	VirtuaMachine	1	02/07/2014		
Service Processor	T4-4_LDOM3		Logical Domain	VirtuaMachine	1	03/11/2014 1		
Finware	athena1-06		Logical Domain	VirtuaMachine	1	01/27/2014		
🗃 🧾 Dynamic System Domain	athena1-06		Logical Domain	VirtuaMachine	1	01/30/2014		
S Provisioning	athena1-06		Logical Domain	VirtuaMachine	1	01/27/2014		
🗃 🧾 Logical Domain	defaut-osc	Default OS C	Logical Domain	VirtuaMachine	1	01/22/2014		
Oracle Solaris Zone	defaut-osc	Default OS C	Solaris	OSP SPARC	1	01/22/2014		
U E BOS Conform	defaut-osc	Default OS C	Solaris	OSP x86	1	01/22/2014		
Bect Environ 3 Storage Apple								

- 5) In the Navigation Pane, go to Plan Management. From Deployment Plans, select **Provision OS**.
- 6) In the Actions Pane, go to Organize and select **Create Plan from Template**.

ORACLE Enterprise M	anager Ops Center 12c 0	ctest-srv2	Setup • Help • 🤽 root Logout 🚳	\subseteq
434 467 230 2	•		All Assets	
« Navigation	Z Provision OS		🕌 😂 💿 🔛 Actions	
2 Hessage Center			🖂 Organize	6
2 Assets	Target Type: Servers	Version: 3	Create Plan from Template	
😒 Plan Hanagement	Template Name: Provision OS Description: Provisions OS on server	Release Date: 03/11/2	014 3 23 50 pm GMT	_
S Configure and Instal Logica	Deployment Template Composition			
B Configure and Install Virtua	Step	Required input	Required Profile/Plan	
3 Create Boot Environment	Provision OS	profile	OS Provisioning Profile	
Create Dynamic System Do Create Locical Demains	Configure OS	profile	OS Configuration Profile	
B Z Create Ora	Deployment Plans From Template (33)		
Create Vin S	/ 2 2 2 X	© Searc	h • х р	
H Z Provision OS	Plan Name Ve Target Type	Description Failure Policy Li	ast Modified	
Software Deployment / Upc	T4-4_LDOM1 1 VirtuaMac	Stop at fail 0.	225/2014 4:01:15 •	



7) Enter the Plan Name.

8) In the Deployment Plan Steps window, select the profile created in steps 2) and 4) under Associated Profile/Deployment Plan.

9) Click Save.

		7	_	* Indicates Required	Pr
* Plan Name: T4-4_LDOM3					
Description:					
Failure Policy: Stop at fails	ure Complete as much as por	sible			
Tanare Fouch Only at lan	ne - complete as mounts pro				
Target Type: Servers					
emplace name: Provision Co					
Deployment Plan Steps					
18 Q 41 × 40					
Step	Profile/Plan Type	Associated Profile/Deployment Plan	8	f Assigned Targets	
Provision OS (Required step)	OS Provisioning Profile	T4-4_LDOM3 v1 (Logical Domain)	р.	0	
Configure OS (Required step)	OS Configuration Profile	T4-4_LDOM3 v1 (Logical Domain)	1		



- 1 O) In the Navigation Pane, go to Assets and select the designated guest domain.
- 1 1) In the Actions Pane, go to Deploy and select Install Server.

ORACLE Enterprise Ma	nager Ops Center 12c octest-srv2	Setup • Help • 🤽 root Logout 🐻 💭
4234 4467 2530 2		Al Aspets
Navigation	B_0C4	📑 😂 👓 💓 Actions
Hessage Center Assets AAssets AAssets File Alasets	Dashboard Summary Console Network Summary - OC4 Unassigned Incident Domain Name: OC4 Display Name: OC4 Description: Status: instaling Tags: (A) Running Time: - Methodship Graph Methodship Graph Summary - OC4 Description: Status: instaling Tags: (A) Running Time: - Methodship Graph Summary - OC4 Summary - OC4	Storage Inckler Is Image: Storage OS: generic Image: Storage Ibrary Image: Storage Image: Storage Image: Storage Image: Ibrary Image: Storage Image: Ibrary Image: Image

- 1 2) Select the plan that you created in steps 7) through 9).
- 1 3) Select Apply with minimal interaction.
- 1 4) Click Apply Plan and install the plan following the instructions in the Install Server Wizard.
 - Installation in step 14) may take up to 30 minutes to complete.

stall Server 🕐			ORA	CLE
Target Asset(s):				
Asset Name		Description		
OC4				
Select a plan to perform the a	action. Alternatively you m	ay dick the Create New Pla	n button to create	w!
plan for the action.				
plan for the action. Deployment Plan	Description		Vers	2
plan for the action. Deployment Plan T4-4_LDOM1	Description		Vers 1	2
plan for the action. Deployment Plan T4-4_LDDM1 T4-4_LDDM2	Description		Vers 1	2
plan for the action. Deployment Plan T4-4_LDOM1 T4-4_LDOM2 T4-4_LDOM3	Description		Vers 1	2
plan for the action. Deployment Plan T4-4_LDOM1 T4-4_LDOM2 T4-4_LDOM3 How would you like to apply t	Description		Vers 1	2
plan for the action. Deployment Plan T4-4_LDOM1 T4-4_LDOM2 T4-4_LDOM3 How would you like to apply to a. Apply with minimal intera-	Description		Vers 1 1 1	2
plan for the action. Deployment Plan T4-4_LDOM1 T4-4_LDOM2 T4-4_LDOM3 How would you like to apply t @ Apply with minimal interact O Adaw me to override any	Description		Vers 1	2
plan for the action. Deployment Plan T4-4_LDOM1 T4-4_LDOM2 T4-4_LDOM3 How would you like to apply t Apply with minimal interact Allow me to override any	Description The planet of the		1 1 1	2
plan for the action. Deployment Plan T4-4_LDOM1 T4-4_LDOM2 T4-4_LDOM3 How would you like to apply t @ Apply with minimal interact Allow me to override any	Description The planet of the		1 1 1 1 14	2

Verification: Check that the registered guest domain's OS is displayed in Navigation Pane.



2-2.Oracle Solaris Zone

2-2-1. Oracle Solaris Zone Configuration

Configuring the Oracle Solaris Zone.

(For further information see the: Ops Center 12c Release 2 System Configuration Guide)

Application: Ops Center

Relevant OS Command: zoneadm(1M), zonecfg(1M)

Operation Procedure

Preliminary Operation: An Agent Controller must be installed on the server that the Zone (guest domain or control domain) will be installed on.

(Please refer to: Installing an Agent Controller in Appendix-1)

1) In the Navigation Pane, go to Plan Management. From Profiles and Policies, select Oracle Solaris Zone.

- Oracle Solaris Zone is sometimes displayed as [TEST]. This is a recognized bug. If this is the case, please read "test" as "Oracle Solaris Zone".

2) In the Actions Pane go to Organize, select Create Profile, and create a profile following the instructions in the Create Profile Wizard.

- Please select the "Create a deployment plan for this profile" option. This option is selected by default. If it is not selected, the plan will not be automatically created.

	nager Ops Center	120	octest-sn	2	54	tup - +	felp • 🤹 root Logout 🛞 📿
43 s 🚳 t 🗐 s 🛤	•					P. 10 1	laseta
Navigation	📓 Oracle Solari	s Zone Profiles			18 C	5 ••	Actions 2
2 Message Center							😒 Organi
2) Assets	🛫 Oracle Solar	is Zone Profiles (3)					Create Profile
🛫 Plan Hanagement	188	x			\$	Search	
Update Storage Applances	Name .	Description	Subtype	Target Type	Version	Last	
Profiles and Policies	T4-4_201e		Solaris 11	Global Zone	2	01/5	
B Ciscovery	T4-4_20ne2		Solaris 11	Global Zone	1	01/2	
B E RAD Controler	T4-4_zone_remot	e	Solaria 11	Global Zone	1	02/1	
a E Frenare						- 11	
a El OS Provisioning						- 18	
a El Lopical Domain						- 11	
🖉 🗧 Oracle Solaris Zone						- 11	
El test took							



- 3) In the Navigation Pane, go to Assets and select the relevant server.
- 4) In the Actions Pane, go to Deploy and select **Create Oracle Solaris Zones**.

ORACLE Enterprise Man	ager Ops Center 12c	octest-srv2	Setup •	Help • 🤹 root Logout 🐻 📿
🚳 s 🚳 s 🔊 🔊			<u>P.</u>	Al Assets
Ravigation Hessage Center	Dashboard Summary Libraries	Storage Analytics	Networks Incidents	Actions Actions Actions
✓ Assets ♦ Al Assets	Summary - SOLARIS Name: T4-4	Unassign State: Running	ed Incidents: 🔮 2 🛻 0 🔮 0 Current Alert Status: Oritcal	Credentals
AlAsets	UUID: 1cfecb3f- 8028-4603- a9c5-122e4	Server Name: T4-4 Control Domain	Running Time: 21 day(s), 21:34 (14:504) 1	Upgrade Agent Controller
0 WF 144	Description: 10.20.98.41 Tags: 🖉	05: Orade Solaris 11	Total CPU Threads: 32	Add Assets Find Assets
OC2 sthema1-06_LD0 OCpuests	Agent Hanaged: Tes (Drace Solars			Deploy
CCpuests	🕑 Hembership Graph		A District Web at	😒 Update

- 5) After selecting the Zone plan you created, press the **Apply Plan** button.
- 6) Create the Zone following the instructions from the Wizard.

irget Asset(s):			_
Asset Name	Description		
4-4	10.20.98.41		
an for the action.			
an for the action. Deployment Plan	Description	Version	
n for the action. Seployment Plan 16-6_zone-plan	Description Created from profile	Version 2	
n for the action. lepkyment Plan 4-4_zone plan 4-4_zone2-plan	Description Created from profile Created from profile	Version 2 1	
an for the action. Depixyment Plan 16-6_zone-plan 14-6_zone2-plan	Description Created from profile Created from profile	Version 2	
an for the action. Deployment Plan 14-4_zone-plan 14-4_zone_remote-plan tw would you like to apply the p I Apply with minimal interaction.	Description Created from profile Created from profile Created from profile	Version 2 1 1	

Verification: Check that the register Zone is displayed in the Assets section of the Navigation Pane.



3. Hardware Settings and Operational Procedures

Chapter 3 explains the operation of the XSCF Web Console.

You can check the power status and get information about the firmware using the Ops Center, but when the power or firmware is controlled using the XSCF Web Console, the data in the Ops Center will not be updated in a timely fashion. Because of this, when checking information using the Ops Center, the data must be manually updated using the Ops Center's refresh function.

3 - 1. Power On and Off

3 - 1 - 1 . Power Controls for the Physical Partitions (All Partitions)

Execute the power on and off for all physical partitions.

Application: XSCF Web Console

Relevant XSCF Command: poweron(8), poweroff(8)

Operation Procedure

- 1) Under the Menu tab of the Menu Frame, go to XSCF-PPAR Operation and select **PPAR Power**.
- 2) Put a check next to System Operation in the main frame.
- 3) Select Power On All PPARs or Power Off All PPARs.
- 4) Click Apply.

User and Server and Host XSCF Web Cor	namcom hsole		Last Update	REFRESH LOG OUT Thu Mar 6 10:30:58 JST 2014 Showf-lide Monitor Message
Menu Physical Le XSCF Menu PPAR Oper PPAR Oper PPAR Configura PPAR Configura PPAR Configura PPAR Configura PSB Configura PSB Configura Domain Config PAR Oper Logs	PPAR Power Is page allows you to operate the neuronic Instem Operation : PP 2 System Operation Prover On All PPARs Tower Of All PPARs Tower Of All PPARs E Back to top 4 PPAR Operation			
	PPAR Operation © Power ON Power OFF PPARID 00	Force Power OFF Reset(por)	Reset(panic)	Send break signal

Verification: You can check the status under PPAR Operation on the same page.



3 - 1 - 2 . Power Controls for Specific Physical Partition (1 Partition)

Switch the power on or off for a specific partition.

Application: XSCF Web Console (May be executed with Ops Center) Relevant XSCF Command: poweron(8), poweroff(8)

Operation Procedure

- 1) Under Menu in the Menu Frame, go to XSCF-PPAR Operation and select **PPAR Power**.
- 2) In PPAR Operation in the Main frame, select the PPAR to start up or shut down.
- 3) Click Power ON or Power OFF.
- 4) On the confirmation page, press OK.

User xscf Server xscf0-hostnamcom XSCF Web Console		Last Update: Wed Feb 26 13:17:54 JST 2014 ShowFilde Monitor Message
XSCF Web Console	System Operation I PPAR Operation System Operation Power On AI PPARs Power Of AI PPARs Rector PPAR Operation PPAR Operation PPAR Operation Power ON Power OF Power ON Power OF Parce Parce Power ON Power OF Parce Parc	Power OFF. Reset(por) Reset(panic)
	• 00	Status Running

Verification: You can check the status by looking in the PPAR operation section of the main frame.



3 - 1 - 3 . Power Schedule Settings

Turn the system power on or off at a designated time.

Application: XSCF Web Console

Relevant XSCF Command: addpowerschedule(8)

Operation Procedure

Preliminary Operation: Activate the PPAR running schedule

(Please refer to Configuring Scheduled Activation for Physical Partitions in Appendix-3.)

- 1) In the Menu tab of the Menu Frame, go to XSCF settings and select **Power Schedule**.
- 2) In the Power Schedule List section of the Main Frame, press Add....

VERSION	com			Last Update	REFRESH. LOG OUT.
XSCF Web Conso	le				Showl-Hide Monitor Message
Menu Physical Logical	Reack to top Power Schedu Power Sched	ile List Summary dule List Summary			^
Settings Settings Settings Setvice	0	Next Power O	n	Next Power Off	
User Manager Autologout CoD Reservation CoD Activation CoD Activatio	Back to top Power Schedu Power Sche	ile List ● All ● 00 ♥ / PPARID Type	2 IddDelete Term/Date	OnTime/OffTime	Pattern
Add-In Card Manager			No data available i	n table	

3) Enter the required information and click OK.

- Regarding the PPAR ID, if All is checked, it is possible to setup all PPARs all at once. Select specific PPARs to set them up individually.

- Under Type you can select the options: daily, weekly, monthly, special, or holiday.

page allows you to add power schedule list. PAR ID: All C OO per: daily eg.hhm0(0050) pwer off time: 0100 eg.hhm0(2350) pwer off time: 0100 eg.hhm0(2350)
Tindicates required field PAR ID: All C 00 per: daily wer on time: 0600 eg.hhm0(0050) wer off time: 0100 eg.hhm0(2350)
PAR ID: € AII
daily daily <thdaily< th=""> daily <thd< th=""></thd<></thdaily<>
ower on time: 0600 eg.Nhn0(0050) ower off time: 0100 eg.Nhn0(2350)
ower off time: 0100 eg.hhm0(2350)
0000-0000 as 18000 as 680000 10000
eg.sec.c=maa(0/26-1230)
HTTC: (0003-0003 Hg/McCo-HHod(0/26-1230)

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- The above example shows the settings for turning the power off at 1 o'clock and turning it on at 6 o'clock on March 3rd.

Verification: Check that the schedule that you set up is registered in the Power Schedule List.



3-2.CPU Core Activation Key Registration and Deletion

3-2-1. Registering the CPU Activation Key

Register the CPU Core Activation key. By registering the activation key, you can activate the CPU Core. Application: XSCF Web Console

Relevant XSCF Command: addcodactivation(8)

Operation Procedure

- 1) In the Menu tab of the Menu Frame, go to XSCF. From Settings, select **CoD Activation**.
- 2) In the CoD Key section of the Main Frame, click Add New Key.



3) Enter the activation key information, and click OK.



Verification: Check that new key is added in the CoD Key list.



3-2-2 Configuring the CPU Core Resource for Physical Partitions

The CPU core activated by the activation key will be registered in the Physical Partition (PPAR). You can delete a CPU core that has been registered in PPAR.

Application: XSCF Web Console

Relevant XSCF Command: setcod(8)

Operation Procedure

- 1) In the Menu Tab of the Menu Frame, go to XSCF setting and select **CoD Reservation**.
- 2) In the PPAR Usage and Reservation section of the main frame, select the relevant PPAR.
- 3) Click Reserve....

scstor r: xsd' Server: xsd0-hostnam_com SCF Web Console			Lasti	Jpdate: Tue Apr 15 17:23:13 JST 20
Menu Physical Logical	Capacity on Demand - This page allows you to config CoD Usage Summary CoD Usage Summary	Reservation ure Capacity on De PPAR Usage and	emand (CoD) resou Reservation	rces and permits.
- Service	CoD Usage Summar	1		
User Manager	Display Type: PPAR	- Detail		
CoD Reservation	PPAR-ID/Resource	In Use	Installed	Assigned
CoD Activation	0 - PROC	10	16	12 cores
- Email Reporting	Unused - PROC	0	0	6 cores
Ernali Reporting Time Power Capping Power Schedule Add-In Card Manager Maintenance Logs	Back to top PPAR Usage and Rese PPAR Usage and Rese Reserve	ervation	_	
		· · · · · · · · · · · · · · · · · · ·		

4) Next to Permanent, enter the number of cores to be set to the OS, and click the OK button.



Verification: In the PPAR Usage and Reservation list, check that the number of cores is equal to the number you entered for that PPAR.



3-2-3. Deleteing the CPU Core Activation Key

Delete a CPU Core Activation key. The deleted activation key can be used on other servers. However, this is possible only if used on the same model.

Application: XSCF Web Console

Relevant XSCF Command: deletecodactivation(8)

Operation Procedure

- 1) In the Menu Tab of the Menu Frame, go to XSCF settings and select **CoD Activation**.
- 2) Select the relevant activation key in the CoD Key section of the Main Frame.
- 3) Click the **Delete** button.
- 4) Click **OK** on the confirmation screen.

VERSION User: xscf Server: xscf0-hostnamco	m		REFRESH LOG OUT Last Update: Tue Feb 18 16:37:43 JST 2014
XSCF Web Consol	e		Show/Hide Monitor Message
Menu Physical Logical XSCF Status PPAR Operation Settings Network Setvice User Manager Autologout CoD Reservation CoD Reservation CoD Activation	Capacity on Deman This page allows you to ad -Cod key is the proof of pur COD Key COD Key COD Key COD Key COD Key COD Key	d - Activation d or delete CoD keys. chase that customers are given v ration History Key Key Details Delete Description	when they purchase a CoD permit.
ADUR		PROC	2
- Email Reporting		PROC	2
- Power Capping	2	PROC	2
- 📄 Power Schedule	3	PROC	2
– 📄 Add-In Card Manager	4	PROC	2
► 🚞 Maintenance	5	PROC	2
► 🛅 Logs	2 1 6	PROC	2
	7	PROC	2
	Showing 1 to 8 of 8 en	tries 💽 💽	Page: 1 of 1 Go >>

Verification: Check that the key you selected is deleted from the CoD Key list.



3-3.Firmware Updates

3-3-1. Execution of Firmware Updates

Update the Firmware.

Application: XSCF Web Console (May also be carried out using Ops Center) Relevant XSCF Command: getflashimage(8), flashupdate(8)

Operation Procedure

1) In the Menu Tab of the Menu Frame, go to XSCF-Maintenance and select **Firmware Update**.

2) In the XCP import section of the Main Frame, press the button marked **Choose File**, select the Firmware Update file, and click the **Upload** button.

- 3) Click **Update...** in the XCP Update section.
- 4) In the Update Firmware dialogue box, type in the version of the update, then select **Target** and click **OK**.

Note: After executing the update, XSCF will be automatically reset. Accordingly, it will be necessary to log back into the XSCF Web Console.

User xsd [®] Server xsd [®] -hostnam.com XSCF Web Console		Last Update: Thu Feb 20 ShowHide	ESH LOG OUT 10:05:49 JST 2014 e Monitor Message
Menu Physical Logical	OpenBoot PROM information	POST : 2.2.0 OpenBoot PROM : 4.34.0+1.24.0 Hypervisor : 0.29.6 PSB#00-0: 02.07.0000(Reserve) POST : 1.44.0 OpenBoot PROM : 4.34.0+1.23.0 Hypervisor : 0.27.8	Â
Maintenance	Back to top		
Firmware Update	XCP Import		
- Snapshot	Registered XCP Version		
► 🛅 Logs	System	Status	
	Existing XCP version	2092	
	Existing PCIBOX version		
	*File: Upload Reset Back to top XCP Update -XSCF will be rebooted by -You must wait until the State	Choose File	s required field

Verification: In the Display Firmware Version section of the same page, check the XCP Version and confirm that it has been updated to the latest version.



4. OS Settings and Controls

4 - 1.OS Restart

4 - 1 - 1 .OS Restart

Restart the OS.

- OS start up/shut down must be executed using the command line.
- Physical partitions may be started up and shut down. (For information about how to do this, refer to
- "Startup and Shut down")

Application: Ops Center

Relevant OS Command: reboot(1M), shutdown(1M), init(1M)

- 1) In the Navigation Pane, go to Assets and select the server concerned.
- 2) In the Actions Pane, go to Operate and select Reboot.





4 - 2 .Network Settings

4-2-1. Adding a New Interface

Add a new interface. The procedure differs depending on whether you are using the Agent Controller for Oracle VM or the Zone.

Application: Ops Center

Relevant OS Command: ipadm(1M)

Operation Procedure

Preliminary Operation: You must create a subnet before you create a new interface to go on it.

(Refer to: Adding a New Subnet Appendix-4.)

- When using Agent Controller for Oracle VM
 - 1) In the Navigation Pane, go to Assets and select the relevant server.
 - 2) Select the Networks tab.
 - 3) Press Attach Network.

4) Enter the required parameters (e.g. the IP address) following the instructions in the Wizard and press **Finish**.

DRACLE Enterprise Man	ager Ops Center 120		octest	-srv2		Set	Hel	p • 🤽 root Logout 📆 🤇
81 🚳 🕼 🦛	•						2	ts
Navigation	🖀 athena 1-06						2 /	Actions
Message Center	<1 Summary	Analytics	Virtual Services	I/O Resou	rces Librari	es Networks		😒 Operate
Assets								Edt Attributes
Al Assets Y		A indicates the netw	ork is the manager	nent network f	or the Oracle VM S	erver and cannot be r	modified	Cont Tags
Al Assets	Oracle VM Server N	etwork Physical Conn	ectivity (5)					Attach Network
a 📾 Servers								Associate Libraries
G = 10.20.66.16	3	VL/ Service Domain	Switch name	Link	Over	P Address		C Refresh
attena1-06	10 20 56 0/24 1	· primary	10 20 66 0 24	0.007		10 20 66 96		Save Configuration
attenat-06		- printery	primary-vsw0	net0				Host
Depci01		- printery	primary-vow20					X Place In Maintenance Mode
nenote	<u> </u>	- printery	primary-vow1	net1		-	1	Remove From Maintenance Mode
- B soffi								Apply a Monitoring Profile
	Additional Connect	tivity Info Logic	al Domains Using t	he Network				B Extract Monitoring Profile
		Network: 10.20.66	0.024.5	Fabric Name:			- 11	🔟 Organize
_		Switch Type: LDon Vi	suai Switch	Media Type:	Ethernet		- 18	Add Asset to Group
rch X I T	Network	Connection: Uninows	· •	LAN Tagging:	Disabled		- 18	Nove Asset to Group
Plan Management	Address Alloca	tion Method: Use Stat	c P	P-Keyt	-		- 18	🥔 Remove Asset from Group
Libraries		CR Claud ID:		I ink lafer	10.1			D Linnaryage Eviete Assets

Verification: Check that the new interface is displayed in the Oracle VM Server Network Physical Connectivity list.



- For the Zone Agent Controller:
 - 1) In the Navigation Pane, go to Assets and select the target.
 - 2) Under the Networks tab, select Network Connectivity.
 - 3) Click Attach Network.
 - 4) Enter the required parameters (e.g. the IP address) following the instructions in the Wizard and

press Finish.



Verification: Check that the added interface is displayed in the Network Interface Connectivity list.



4 - 2 - 2 . Changing Network Settings

This section describes how to change network settings such as IP addresses. Procedures differ depending on whether the Agent Controller is for the Oracle VM or for the Zone.

Application: Ops Center

Relevant OS Command: ipadm(1M)

Operation Procedure

- For Oracle VM Agent Controller

- 1) In the Navigation Pane, go to Assets and select the relevant server.
- 2) Select the Networks tab.
- 3) Select the interface to be changed.
 - You cannot change the managing interface.
- 4) Press Modify Physical Connectivity.



5) Enter the new setting parameters and press Submit.

Network Name:	192.168.10.0/24	
Physical NDC1	net2	*
IP Address Allocation Methodi	Use Static IP	*
P Address:	192.168.10.100	
DHOP ID:		

Verification: Check that the parameters of the designated interface have been replaced with the new ones.



- For the Zone Agent Controller:
 - 6) In Navigation Pane, go to Assets and select the relevant server.
 - 7) Select Network Connectivity in the Networks tab.
 - 8) Select the interface your want to change.
 - You cannot change the management interface.
 - 9) Press Modify Physical Connectivity.

ORACLE Enterprise Mar	nager Ops Center 12	he .			octest-se	rv2			Setup	- Help -	🛃 root Logout 🟐	0
a a a a	•	2								P. NJ Assets		_
Navigation	athena1-06	2				_		-			ctions	_
≥ Message Center	< Dashboard		Librari	kes Sto	rage Analyti	ks Netwo	do Incide	nts Me	onitoring Ter	•••• 💽	Operate	-
😒 Assets	Network Connects	vity 4	BMB Groups	Link Ag	proprietons 6	andwidth Mana	gement			1	Edt Attributes	
© All Assets 👻										0	Edit Tagi	
Al Assets				a indici	ites the network is t	the managemen	t network for the	Olobal Zone	and cannot be more	offed O	Reboot	
Carlos Servers	🗵 Network Int	4	tivity							1 0	Attach Network	
0 - 10.20.66.106	09 Da 24	\smile								. 8	Associate Libraries	
G 🔂 10 20.66.16	And and Annual Sector	P.Mart I	1 ma	0.0	P Labors	Management	Darie Church D	(int into	Televist .	- 2	Renove from Server Pool	
G 🔂 attent ()	*	VLAND		0.00	Allocation	Interface P	uno carro	Crano	Connects	3 6	Mgrate Zones	
	10.20.66.0/24.1		ret7		Use Static P	10.20.66.96		10-1	Unknown	2	Refresh	
E Fran	192.168.10.0		VIR:1443703	- 1404	Use Static P	192.168.93.50	0	OM.	Unknown	2	Execute Operation	
											Create New Boot Environment	
										- 1 - 4	Activate Boot Environment and	1
											Reboot	
	Additional Conner	ctivity Info	Guests	Using the Ne	twork					1.1	Synchronize boot Enverancement	
										4	Place In Maintenance Mode	
		No.	twork: 192,168	10.004	Patric Name: 07	Fab at net7 at 10	20.06.96			8	Ramove From Maintenance Minde	
44			NRC: net4		Media Type: EP	hend				19	Apply a Monitoring Profile	
Search (A A T			Class: Physical	INIC	VLAN Tagging: Co	soled				R.	Extract Monitoring Profile	
2) Plan Management	P Address A	Accution M	lethod: Use Stat	te P	VLANID: -						Ed Disease	
≥ Libraries		DHCP CE	ient ID: -		MTR: 15	00 of 1500					Ond English	
2 Reports	Manag	perment Net	twork: No									
2) Networks		Lin	ik Infoc OM							12	Discover OCSE Targets	
2 vDC Management											Organize	

1 0) Enter new parameters and press Submit.

Network Name:	192.168.10.0/24	
Physical NDC:	ret4	*
P Address Alocation Method:	Use Static IP	~
P A59 essi	192.168.10.99	
HOP ID:		
		5

Verification: Check that the parameters of the designated interface have been replaced with the new ones.



4-2-3.IPMP Settings

Setup the IPMP, and configure network redundancy.

Application: Ops Center

Relevant OS Command: ipadm(1M), ipmpstat(1M)

- 1) In the Navigation Pane, go to Assets and select the relevant server.
- 2) Select IPMP Groups under the Networks tab.
- 3) Click Create IPMP Group.

	Aanager Ops Center 12c		octest-srv2		Setup • Hel	p • 🦺 root Logout 🛞	0
43 · 44 · 19 ·	<u>48</u> •				P. Al Acc	eta	
· Navigation	🔲 T4-4	2				Actions	
Hessage Center Assets Al Assets	Cashboard Se Sectority 3	IPHP Groups	Storage Analytics & Appregations Ban	Networks Incident dwidth Hanagement	н >	Operate Edit Attributes Edit Taos	Î
1	D (0)	1		L. COLOR MANY	\$	Reboot Attach Network	4
144 10,000	PMP Group Name	Falure Detection	Network	P-Key / VLAN D		Associate Libraries	
athena1-06_LDO						🛱 Refresh	
OCguests OCguests	1					Execute Operation	
ectest.sv2						Create New Boot Environment	

- 4) Enter the IPMP Group Name, Network, and IPMP Group Members.
- 5) Click Next.

Steps Help	Specify IPMP Group *Indcates	Required Field
Specify 3PHP Group Specify NDC Settings Specify Data Addresses	Specify the 3949 Group Name, its failure detection method and the interfaces you want to add to the group pensisted across rebools.	roup would be
Summery	* IPHP Group Name: 35401	
	* Network: 10.20.66.0/24.1	
	Hedia Type: @ Ethernet 🔘 Infinband	
	Failure Detection: 77 (Init-Based (always enabled)	
	Probe-Based	
	* 1919 Group Hembers: Available Network Interfaces 1919 Group Hembers	
	net10 net0	
	net11 net1	
	net12	
	net13	
	Use Cb1+Click or Shift+Click to select multiple fillCs.	5



6) Configure the Specify NIC Settings and Specify Data Addresses, if necessary, then go to Summary and press **Finish**.

- To specify redundancy for the control domain Management LAN, put a check in Create vnic, under Specify NIC Settings and make the vnic redundant.

teps Help	Specify NIC Settings			
Specify 3HP Group Specify NIC Settings Specify Data Addresses Summary	Specify stand-by pokcy for each NDC of I NOTE: You can optionally specify Test 3	the 3999 group. • Address for any of the specif	e-Based Failure D	etection is specified.
	Network Interfaces in the IPMP	Group		
	Heriace	Create vnic //B pert?	Data Link Name	Standby Interface?
	net0	30	vnic306180602	13

Verification: Check that the settings you added are displayed.



4 - 2 - 4 .Link Aggregation Configuration

Set up Link Aggregation and expand the network bandwidth.

Application: Ops Center

Relevant OS Command: dladm(1M)

Operation Procedure

- 1) In the Navigation Pane, go to Assets and select the relevant server.
- 2) In the Network tab, select Link Aggregations.
- 3) Click the Create Link Aggregation button.

ORACLE Enterprise Ma	nager Ops Center	12c		octest-se	TV2		Setup -	Help • 👥 root Logout 🚿 📿
431 4 <u>615 1</u> 39 1	0						PN	Assets
Navigation	🔲 T4-4				2			Actions
≥ Hessage Center ⊴ Assets	C Dashboard	Summar schvity	y Libraries PHIP Groups	Storage Link Appregati	tander	Networks th Hanagement	Incidents H	Operate Foll Ambudes
Al Assets	3 Serie	ak Apprepation	ıs (0)				\$	Edit Tags Reboot Attach Network
164	Link Apprepation Name •	Datalink Multipathing (DLMP)	LACP Mode	LACP Timer	Load Balancing Policy	MAC Address Policy	MAC Address	Associate Libraries
0C1	No data							Con Migrate Zones
CCpuests	i							Execute Operation
edest-srv2								Oreate New Boot Environment
Search X I T								Activate Boot Environment and Reboot
2) Libraries								Synchronize Boot Environment

- 4) Enter the Link Aggregation Name and the Link Aggregation Members.
- 5) Click Next.
- 6) Set specify Link Aggregation, if necessary, and then press Finish in the summary.

- To add an IP address after creating a Link Aggregation, refer to section 4-2-1. Adding a New Interface.

Specify Link Apgregation Configure Link Aggregation Summary	Specify the IEEE 802.3ad Link Aggregation Name and select the physical interfaces (RGc) you want to Accordance created would be previous reboots.	4 Link
3. Sumary	* Link Apgregation LE94001 Name: * Link Apgregation Available liebwork Interfaces time Apgregation Hembers Net16 net1 net1 net4 net4 Link Apgregation Hembers net1 net4 Link Apgregation Hembers net1 net4 Link Apgregation Hembers net2 net4 Link Apgregation Hembers net2 net4 Link Apgregation Hembers net2 net4 Link Apgregation Hembers net3 net4 Link Apgregation Hembers net4 Link Apgregation Hembers net4 Link Apgregation Hembers net4 net4 Link Apgregation Hembers net4 net4 Link Apgregation Hembers net4 net4 Link Apgregation Hembers net4 net4 Link Apgregation Hembers net4 net4 Net5 Link Apgregation Hembers net4 Net5 Link Apgregation Hembers net4 Net5 Link Apgregation Hembers net4 Net5 Link Apgregation Hembers net4 Net5 Link Apgregation Hembers Net4 Link Appregation Hembers Link Appregation Hembers Net4 Link Appregation Hembers Link Appregation Hembers Net4 Link Appregation Hembers Link Appresent Link Appresent	

Verification: Check that the settings you configured are displayed.



4-2-5.Bandwidth Setup

Set up the network bandwidth. This setup can only be used on the Solaris 11 server.

Application: Ops Center

Relevant OS Command: flowadm(1M)

Operation Procedure

- 1) In the Navigation Pane, go to Assets and select the relevant server.
- 2) In the Networks tab, select Bandwidth Management.
- 3) Click Create Bandwidth Flow.

	Manager Ops Center 12	۶c	octest-srv2		Setup • He	lp • 🤽 root Logout 🛞 🧲
439 441 A39	<u></u>				P. Al An	iets
Mavigation	E 14-4			2	🖉 🖾 👓	Actions
2 Message Center	< Dashboard	Summary Libraries	Storage Analytics No	tworks	nts H >	😒 Operate
≥ Assets	- nect	wity IPHIP Groups Lie	R Aggregations Bandwidth P	lanagement		/ Edit Attributes
Al Assets	3				(1	Edit Tags
9 🖟	A rate	yn (16)				Reboot
1	0 × /				\$	Attach Network
	Flow .	Priority	Max Bandwidth	Attribute		Associate Libraries
16.4	E 🛛 Link: net0				- 11	Remove from Server Pool
001	net0 (Ink)	High	*			Mgrate Zones
attena1-06_LDO	3 Link net1					🛱 Refresh
Copuests	3 Link net10					Execute Operation
a a octest-srv2	* net10 (link)	High				of Create New Boot
Cauch X I	* Unk net11					Envronment
) Plan Hanasement	net11 (link)	High				and Reboot
2) Libraries	G Link net12					Synchronize Boot

- 4) Enter the Flow Name, Link, Properties, and Attributes Setting.
- 5) Press Create.

Advidth management helps to manage your network resour rease the quality of service. Define the flow on a link to add which usage. * How Name: PLOND: * Link: net0 *	ndwidth Flow	Settings	* Indicate	Required Fiel
* flow Names PLONO1 * Link: net0 * Properties Bandwidth Limit: * Hax Bandwidth: 20 Mbps * * Attributes Settings Attribute: Transport Protock TOP Local Port: Benode Port:	dwidth managemen ease the quality of dwidth usage.	t helps to manage yo service. Define the fi	ur network reso ow on a link to a	4
* Link: net) * Properties Bandwidth Limit: Hax Bandwidth: 30 Mbps * Attributes Settings Attribute: Transport * Protocol: T(2) * Exempte Port:	* Flow Name:	FLOW01		
Properties Bandwidth Limit: Hax Bandwidth: 20 Mbps Attributes Settings Attribute: Transport Protocol: Cocol:	* Link:	net0	~	
Bandwidth Limit: Hax Bandwidth: 30 Mbps Attributes Settings Attribute: Transport Protocol: TCP Local Port:	· Properties			
Max Bandwidth: 30 Mbps V Attributes Settings Attribute: Transport V Protocol: TCP V Local Port:	Bandwidth Limit	×		- I
Attributes Settings Attributes Transport Protocol: TCP Local Port Bemote Port:	Max Bandwidth	30 Mbps	~	
Attribute: Transport	· Attributes Set	tings		
Protocol: TCP	Attribute	Transport		•
Local Port	Protocol	TOP		•
E Remote Port	Local Port			
	Remote P	ort		- I

Verification: Check that the settings that you configured are displayed on the page.



4 - 3 . Resource Allotment Settings

4-3-1 Control Domain Resource Settings for Oracle VM Server for SPARC

Set up the CPU control domain and memory.

Application: Ops Center

Relevant OS Command: Idm(1M)

Operation Procedure

- 1) In the Navigation Pane, go to Assets and select the relevant domain.
- 2) In the Actions Pane, go to Operate and select Edit Attributes.
- **3**) In the Summary tab, go to control domain Specification, and change the values for the CPU and Memory.
 - If the memory value is not a multiple of 256, it will automatically be reduced down to the nearest multiple of 256.

4) Press Save.

DRACLE Enterprise Manager Ops Center	12c oct	est-srv2		4 - Г Не	p • 🤽 root Logout 🚳 드
😂 9 🐴 16 🖄 9 🦛 9				P. All Act	ets
Savigation T4-4				■ X ¤ ∾	> Actions
Message Center Dashboard	Summary Analytics	Virtual Services	1/0 Resources	uoraries >	😒 Operate
Assets	Name: T4-4	Oracle VM Serve	or Status: Healthy	- îi	Edit Attributes
Al Assets De	scription: Oracle VM Server for SPARC	R	eachable: Yes rver Pook -		💓 Eak rags
9 - 144	CPU Info: SPARC-T4	Oracle VM Serve	r Version: 3.1.0.1		Associate Libraries
5 @ T44	4 socket(s) 32 core(s)	Tags			CR Refresh
G 1 0C1	256 thread(s)	Tag Name 🔺	Value		Save Configuration
OC1 Available CPU	Threads: 244 out of 256	legacy tags	idom virtualization contro	ller	Be Reboot Grade we serve host
Copuests	PU Cores: 29 out of 32				Place In Mantenance Mode Remove From Maintenance
Cocpuests1 Available Memo	ry (RAH): 51 G8 out of 127 G8				Mode
cctest-srv2 Runn	ing Time: 1 day(s), 3:7 (+1:944)			3	Apply a Monitoring Policy
M-Series Servers	sin Specification				Rb Extract a Monitoring Policy
	an sycarceson	Mamonal	Date (MB): accord		🔟 Organize
0	PU Model: 🔘 Whole-Core	t themory :	Have (1980) 65536		Add Asset to Group
c	PU Cores: 1 0				Reg Move Asset to Group
Max C	PU Cores: . 0				all Remove Asset from Group
CPUI	tilization: 0%				Delete Assets
					Add Assets



4-3-2 Oracle VM Server for SPARC Guest Domain Resource Settings

Set up the CPU and memory of the guest domain.

Application: Ops Center

Relevant OS Command: Idm(1M)

- 1) In the Navigation Pane, go to Assets and select the relevant domain.
- 2) In the Actions Pane, go to Operate and select Edit Attributes.
- 3) In the Summary tab, go to **CPU Mode** and change the value of **CPU Threads**.
 - When creating the guest domain, if "Whole-Core" is selected, it will be "CPU cores".
- 4) Change the Memory Size value.
 - If the memory value is not a multiple of 256, it will automatically be reduced down to the nearest multiple of 256.
- 5) Click Save.

	nager Ops Co	enter 12c		octest-srv2		5	up• H	elp • 👱 root Logout 🛞	0
12 10 10 12 12 12 1 12 1 12 1 12 1	•					6	P. Al A	isets	
Ravigation	E 0C1					B ×	⊨ ••	» Actions	
2) Message Center	< Dashbo	ard Sur	amary Console	Network Storage	Incidents	rotatoring		😒 Operate	14
🔟 Assets	Logi	cal Domain Nan	ne: OC1		Status: rur	ning	- ñi	O Start	
AlAsets v AlAsets v and Servers and Teta Teta Teta	Logical Dom	ain Display Nan Rol Descripti	ne: 22 es: guest on: Gobal Zone Server	3	nning Time: 00 OS: Or	lay(s), 1:30 (HH.MM) acle Solaris 11 11/11 S	NARC E	Shutdown / Detach Shutdown /	_
CC1 CC1 CC1 CC2 CC2 CC2 CC2 CC2		CPU Mod	REL Visual CPU CPU Threads: 8 0	Logical Domai	n Metadata: 00 Boot Device: No	rtESTIBraryIOC1 t Available	-	Cit Attributes Cit Attribute	Ì
Search X 1 1	Aut	CPU Utilizati Memory Si Iomatic Recove	on: 1% ze: 0.192 (\$345 ry: Disabled	4 internal.ter Linternal.ter virt.type	virtualizatio virtualizatio zone	ncontroller zone ncontroller		Celete Celete Cable Automatic Recovery Cable Automatic Recovery Recovery Recovery Recovery	_
Libraries Reports Retworks	😒 Virtual	Disk Images						Remove From Maintenance Mode Apply a Monitoring Policy	
2 vDC Hanagement	Type .	Device 0C1-vol0@	Virtual Disk Name OC1-vdisk1	Description OC1-vdsk1		Size (G8)		Ro Extract a Monitoring Policy	
2 Administration	<							2) organice	-



4-3-3.Oracle Solaris Zone Configuration

Configure the Zone resource settings.

Application: Ops Center

Relevant OS Command: prctl(1), zonecfg(1M), poolcfg(1M), pooladm(1M)

Operation Procedure

Preliminary Operation: On the relevant server, install a Zone Agent Controller.

(Refer to: Appendix-1: Installing the Agent Controller)

- 1) In the Navigation Pane, go to Assets and select the relevant Zone.
- 2) In the Actions Pane, go to Operate and click Edit Configuration.



- 3) In Edit Zone Configuration, change the values to be configured.
- 4) Click Finish.

zone name: Ocquests1		Scheduler.	P55			
Zone Type: Native, Whole Root		Max. Lightweight Processes:				
CPU Modek @ Shared () Dedicated		Max. Message IDs:				
Allocated CPU Shares: 0		Max Semaphore IDs:				
CPU Shares: 1		Max. Shared Memory IDs:		_		
CPU Cape 💿 Not Capped 💿 Capped at:	P 60	2 Max. Shared Hemory:		MB	1	
Physical Hemory Cape 🛞 Not Capped 🔘 Capped at	*	Automatic Recovery Priority:	0 0	0	= 100	
Locked Hemory Cap: Not Capped Capped at:		Max. Number of Lofi Devices:				
Virtual Hemory Cap: Not Capped Capped at:	×	Max. Number of Processes:				
					_	



4 - 4 . Monitoring

4 - 4 - 1 .Monitoring Messages

This explains how to monitor messages. Messages can be used to accumulate know-how about the system by monitoring the situations that arise and how they are dealt with.

Application: Ops Center

Relevant OS Command: none

Operation Procedure

- 1) In the Navigation Pane, go to Message Center and select **Unassigned Incidents**.
- 2) In the All Unassigned Incidents panel, the currently active messages are displayed.
 - By default, all messages are aggregated to Unassigned Incidents.



(For Reference)

If multiple users are created on the Ops Center (EC/PC), it is possible to allot incidents to each user. The procedure is described below. (For the procedure to create an user, please refer to Appendix 5. Adding Users to the Ops Center)

- 1) Select the incident concerned, and press Assign Incident(s).
- 2) In the wizard, select the user and press Assign Incidents.

When the setup is complete, a specific incident will be exported to the My Incidents of the assigned user. (User that is logged in to the EC/PC)

Incidents assigned to other users will be exported to Incidents Assigned to Others.

- Low level messages from Incidents will be displayed in Notifications. In addition, if you want to use other Message Center features, you must register your account information (account, password, etc.) with My Oracle Support.



4 - 4 - 2 .Resource Monitoring

Procedures for monitoring the use and status of resources. You can check the level of CPU, Network, and I/O use.

Application: Ops Center

Relevant OS Command: sar(1), dlstat(1M), iostat(1M)

- 1) In the Navigation Pane, go to Assets and select the relevant server.
- 2) Under the Analytics tab, select Summary.





4 - 4 - 3 . Monitoring Processes

How to monitor running processes. You can check the status of each process and its CPU and memory use.

Application: Ops Center

Relevant OS Command: prstat(1M), kill(1)

- 1) In the Navigation Pane, go to Assets and select the relevant server.
- 2) In the Analytics tab, select **Processes**.





4-4-4. Monitoring Services

Monitor and verify the status of the SMF service.

Application: Ops Center

Relevant OS Command: svcs(1)

- 1) In the Navigation Pane, go to Assets and select the relevant server.
- 2) In the Analytics tab, select Services.





4-4-5.Setting Thresholds

By configuring and monitoring thresholds, it is possible to generate alerts based on set resource status conditions.

Application: Ops Center

Relevant OS Command: None

Operation Procedure

- Termination of Threshold Monitoring

- 1) In the Navigation Pane, go to Assets and select the target server.
- 2) In the Monitoring tab, select Alert Monitoring Rules.
- 3) From the Threshold Monitoring Rules, select the target resource.
- 4) Click Disable Alert Monitoring Rule(s). After the Wizard starts, click OK.
 - This procedure is not necessary if in the Enabled? column No is shown next to the target resource.





- Setting the Threshold
 - 5) Select Edit Alert Monitoring Rule Parameters. The Wizard appears.



6) Set the Generate alert after value and click Next.

- This sets the time period between detection and generation of an alert.

Reps Help 1. Configure Alert Rule Parameters 2. Set Dresholds	Configure Alert Rule Parameters Rule Type: Threshold Monitored Attribute: CpuUsage.usageFercentage Monitoring Rule Name: CPU Usage Percentage Description: -	Ind y
	6	



7) Enter the threshold's New Value, and click Apply.

Data on Show da	CpuUsage.usa	pePercentage for OperatingSystem: 14-4	~		
Show da					
101 Percentage	ta for last: 5	Days 🗶 Statistical Data: Avg = 4.29 StdDev = 1.	.11 Mm = 2.00 M	ex = 11.00	1
_	Je 1	111 Α΄ Α΄ Α΄	2:00 3vs 4:0:00	3m 4 12:00 3m 5 0	00 Jan 5 12-0
	Severty	Monitored Attribute	Operator	Current Value	New Value
0	Ortical	CpuUsage usagePercentage	*	95.00	95.0
44	Warning	CpuUsage.usagePercentage	*	60.00	70.0
0	Info	CpuUsage usagePercentage			
	Percentage 6 6 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	20 25 25 25 26 26 26 26 26 26 26 26 26 26	100 75 90 25 9 26 9 26 9 26 9 26 9 26 9 26 9 26 10 <t< td=""><td>Image: Severty Montored Atribute Cperator Image: Severty Montored Atribute Cperator</td><td>30 35 36 <</td></t<>	Image: Severty Montored Atribute Cperator Image: Severty Montored Atribute Cperator	30 35 36 <

- Initiating Threshold Monitoring
 - 8) Press Enable Alert Monitoring Rule(s). After the Wizard starts, click OK.

ORACLE Enterprise Manager Ops Center 12c octest-srv2				Setup • Help • 🟦 root Lopout 🔞 🤇			
1281 14 3 1 1281 1	4.				P. AL	Assets	
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🗃 🔜 M-Series Servers	SMF Service State Inmediate Action: NIA	Critical maintenance	Ves	Ves		Create New Boot Environment	
	∃ Reachability Monitoring Rules (1)				1 1	VE Activate Boot Environment	
	Operating System Reachability Immediate Action: NIA		Ves	Ves		and Reboot	
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earch X 4 1	Service Alert Monitor Intrediste Action: NIA		Ves	No		Remove From Maintenance Mode	
2) Libraries	I Threshold Monitoring Rules (13)					P Apply a Monitoring Profile	
Reports	Boot Env Usage Percent in a 2Pool	Critical 95.0	Yes	Ves		Ro Extract Monitoring Profile	
> Networks	Innediate Action: N/A	4 Warning: 60.0				Self Diagnosis	
> vDC Management	CPU Usage Percentage Innediate Action: NIA	Critical 95.00	No	NA		Credi Requirements	
≥ Administration	(m. 1.14.16	- 111				Discover ISCSI Targets	

Verification: The threshold of the target resource will be changed and Yes will be shown the Enabled? and Active? columns.



- Monitoring Thresholds
 - 9) In the Navigation Pane, go to Assets and select the relevant server.
 - 1 0) Under the Analytics tab, select **Thresholds**.
 - 1 1) Select the target resource to be shown in from **Display**.

- 🍓 16 🦓 0 🛛 🦀 (•			P Al Acc	iets
vigation	T4-4			- E •	Actions
ssage Center	< Dashboard	Summary Libraries Stor	10 Artics Networks	Incidents >	🖂 Operate
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C 144 0	300				Attach Network
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attena1-06_LDOW3	60 E				😅 Refresh
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Cotest-en/2 Cotest-en/2 It-Series Servers	Severity Critical Warning Info	13-50 14-00 14-10 Time(0 Monitored Attribute Cput/sage usagePercentage Cput/sage usagePercentage Cput/sage usagePercentage	24-20 14-30 Cperator Current Value > 90 00 > 91 00	34.40 New Value 90.00	Create New Boot Environment Activate Boot Environment and Reboot Synchronize Boot Environment Activate Boot Environment Common
cotest and cotest-and cotest-and totest-and t	Severity Critical Warning Info	13.50 14.00 34.10 Time(C Monitored Attribute Cpullsage.usagePercentage Cpullsage.usagePercentage Cpullsage.usagePercentage	aver) 14.20 14.30 Operator Current Value > 90.00 > tear Suggest Thresholds	14-0 New Value 90.00 Apply Thresholds	Create New Boot Environment Create New Boot Environment Synchronize Boot Environment Place In Maintenance Mode Remove From Maintenance Mode Place In Maintenance Mode Remove From Maintenance Mode SetTata Adontaring Policy SetTata Adontaring Policy SetTagossis

Apply Thresholds to change the threshold. In this

case, follow steps 4) and 8).



4 - 4 - 6 . Checking the Operating Status

How to display metrics (quality rating) for individual resources. This provides statistics for a range of functions as numerical data and graphs.

Application: Ops Center

Relevant OS Command: sar(1), dlstat(1M), iostat(1M)

Operation Procedure

- 1) In the Navigation Pane, go to Assets and select the target server.
- 2) In the Analytics tab, select Metrics.



Below is a summary of the information that is available.

Resource	Statistics Available	
Load	CPU and memory use, number of times User logged in, etc.	
File System	Remaining space in file system etc.	
Network	Input and output errors. etc.	
Users	Number of logons.	
Buffer Activity	Buffer operation conditions.	
Disk Usage	Disk operation conditions.	
Paging Activity	Paging operation conditions.	
Message Activity	Message operation conditions.	
Tables Status	Table related information.	
TTY Activity	Percentage of Modem Intrusion etc.	
Kernel Memory	Kernel memory operation conditions.	

SPARC/Solaris GUI Management Guide



DNLC	Directory name search information.	
IPC Message Queue	Message queue information.	
IPC Shared Memory	Shared memory information.	
IPC Semaphore Usage	Semaphore usage.	
CPU Utilization	CPU usage.	
CPU Detail	Detailed CPU information.	
File Access	File access information.	
Disk Errors	Disck error information.	
Memory Utilization	Memory usage.	



4-4-7. Displaying Resource Performance Status

How to generate graphs showing resource performance statistics.

Application: Ops Center

Relevant OS Command: sar(1), dlstat(1M), df(1M)

Operation Procedure

- 1) In the Navigation Pane, go to Assets and click on the target server.
- 2) In the Analytics tab, select Charts.
- 3) Select the data you want to view.



Press Export Chart Data to export the data.



4-4-8.Log Monitoring (XSCF)

How to monitor Logs within XSCF.

- OS logs cannot be checked from the GUI.

Application: XSCF Web Console

Relevant XSCF Command: showlogs(8)

Operation Procedure

1) In the Menu tab in the Menu Frame, go to XSCF-Logs and select the log.

CF Web Console	Showfhide Monitor Mess
nu Physical Logical pxScF Status	Sufficient privilege is not assigned to user. Certain operations(or data) on this screen have been disabled(or not been displayed) because you do not have the privilege to execute(or show) them.
Kaintenance Maintenance Copi Copi Event Log Copi Consolution Panic Log Consolution Environment Log Consolution Consolution Consolution	Error Log This pape atows you to display error lops. Error Log E
- 📑 Monitor Message Log	Date - Code Status FRU Message
- Page Cod	Jun 02 17:32:04 JST 2014 1000000-00010100000000000 Information MBU Pseudo error for heartbeat trap notice
Monitor PPAR Monitor	
Log Monitor Message	
Retresh interval: 30 sec •	Hanna
Date	Message
has 6 33 17 16	THE REAL PROPERTY AND
Jun 6 22:17:45	xscf0-hostname Event, SCF.PPARID 0 0ID 0000002 state change (Host stopped)

The logs that can be monitored are listed below.

Log	Log Name
Error Log	Error Log
Power Log	Power Log
Event Log	Event Log
Console Log	Console Log
Panic Log	Panic Log
Environment Log	Tempurature history Log
IPL Message Log	IPL Message Log
Monitor Message Log	Monitor Message Log
Audit Log	Audit Log

(Reference)

In the Event frame, overall system events are displayed in Monitor message format.

Appendix

Appendix-1. Installing the Agent Controller

The procedure for installing an Agent Controller.

Application: Ops Center

Relevant OS Command: none

Operation Procedure

- 1) In the Navigation Pane, go to Assets and select the target server.
- 2) In the Actions Pane, go to Organize and click Switch Management Access.

- 3) In SSH, click **Select** and select the credentials of the target environment. Then press **OK**.
 - If there is no SSH connection setting for the target environment's Credential, click New and create a new one.
- 4) If necessary, put a check next to Enable Oracle VM for SPARC management.

- If checked, it becomes an Agent Controller for Oracle VM control domain. If left unchecked, it will become an Agent Controller for the Zone.

- If executed for a guest domain, only the Zone can be created, and no check will be displayed.
- 5) Click Finish. Oracle Enterprise Manager Ops Center - Switch Man Oracle Enterprise Manager Ops Center - Select Credentials Select Credentials ORACLE Switch Management Access ORACLE Agentless -> Agent Name 🔺 Description 3 This asset is currently managed by a Proxy Controller probing the a an agent on the asset so that the agent will perform a w credentials to be used to install the proxy. Select or create ne Sel Enable Oracle VM for SPARC manage 5 Can

Verification: Check there is a Yes next to the Agent Managed in the Dashboard tab.

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Appendix-2. Deleting the Agent Controller

Delete the Agent Controller.

- Some functions will become unusable if the Agent Controller is deleted. Because of this, it is recommended that in normal circumstances the Agent Controller is left installed.

Application: Ops Center

Relevant OS Command: none

Operation Procedure

- 1) In the Navigation Pane, go to Assets and select the target server.
- 2) In the Actions Pane, go to Organize and click Switch Management Access.

3) In SSH under Discovery, click **Select**. Click the target environment from the list and press **OK**.

4) Click Finish.

icle Enterprise Hanager Ops Center - Switch Hana witch Management Access	gement Access	Ora	ade Enterprise Ma elect Creden	mager Ops Center	- Select Credentials
Agent -> Agentless	3			ciulo -	CRACE
This asset is currently managed by an agent running on t	he asset. This action will charve management to		Name 🔺	Description	Protocol
use Proxy Controller probing instead and the agent will be used by the Proxy Controller to probe the asset.	e removed. Select or create new credentials to be		T4-4_ILOM	1	SSH
Discovery			T4-4_0S		SSH
			athena1-06_XSC	*	SSH
SSH:	New Select Clear		athena1-06_oS		SSH
Hanagement	i				
SSH:	New Replace Clear				
	4				
	Feah Cancel				OK Cance

Verification: Check that there is a No next to Agent Managed in the Dashboard tab.

Appendix-3. Setting the Operating Schedule for the Physical Partition

Set the scheduled running of the physical partition (PPAR) active.

Application: XSCF Web Console

Relevant XSCF Command: setpowerschedule(8)

Operation Procedure

Preliminary Operation: Make sure that the mode switch on the front side of the target server is on "Locked".

1) Under Menu in the Menu frame, go to XSCF, Settings and select **Power Schedule**.

2) In Main frame, go to Power Schedule State and put a check next to the PPAR that you want to schedule.

3) Click Configure...

User xsd Sever xsd0-hostnam XSCF Web Conso	com Die	-	ı	REFRESH LCOOC ast Update: Wed Feb 26 14:55:54 JST : Showit-lide Monitor Mes	UT 2014 5322
Menu Physical Logical	Power Schedule This page allows you to dis Power Schedule State Power Schedule State Power Schedule State Power Schedule S. Configure	splay and set power schedule. Power Schedule List Summate State Configure all PPARs	nary 3 Power Schedule	List	~
- CoD Reservation	2 PPARID	Schedule	Member	Recover Mode	
- CoD Activation	• •	3 disable	0	on	
Email Re Email Re Time Power Cas Power Schedult Add-In Card Manager Maintenance Logs	Back to top Power Schedule Lis Power Schedule I PPAPID	st Summary List Summary Next Power On	Next Po	war Off	

- 4) Select Enable in the Schedule tab.
- 5) Click OK.

Verification: Check that the Schedule of Power Schedule State is enabled.

Appendix-4. Adding a New Subnet

Add a new subnet to Ops Center. To add a new interface in the Oracle Solaris' Management Target, a subnet for the new interface to be added must be created in the Ops Center.

Application: Ops Center

Relevant OS Command: none

- 1) In the Navigation Pane, go to Networks and select **default**.
- 2) In the Action Pane, go to Operate and click on **Define Network**.
- 3) Enter the parameters as instructed by the Wizard, and click Finish.
 - Select the Create New Untagged Fabric option (It is not selected by default).

ORACLE Enterprise	Manager Ops Center 12c octest-srv2	Setup • Help • 1 root Logout 🚳 🤇
481 (det) 281	A)	P. Al Assets
Navigation Message Center	il default Dashboard Details Fabrics Incidents Jobs	😭 😂 👓 🛞 Actions
2) Assets 2) Plan Management 3) Libraries 2) Reports 7) Networks	Summary - default Unassigned Inciden Network Domain: default Fabric Description: default NetworlDomain Tags: ⊘8	nta: 😲 0 📣 0 🔍 0 Kest 2 Edit Attributes & Edit Tags E
s Network	V Membership Graph	Create Network 2

Appendix-5. Adding Users on Ops Center

Add local users on Ops Center. Please note that, because the User on the Ops Center is linked to the user on the EC's OS, the user to be added must already exist on the OS.

Application: Ops Center

Relevant OS Command: none

Operation Procedure

Preliminary Operation: Create the user on the EC Server's OS

- 1) In the Navigation Pane, go to Administration Enterprise Controller Select Local Users.
- 2) In the Users tab, press Add User.

3) Enter the User Name, select Roles, and click Add User.

dd User	_			* Indicates Required Field
* User Name: user01				
Roles: Available Roles Apply Deployment Plans Fault Admin Network Admin Ops Center Admin Plan/Profile Admin	î.	•	Selected Roles Asset Admin Cloud Admin Cloud User	
				/

Verification: Check that the user has been added in the Users and Notification Profiles.

Revision History

Revision	Revision	Revision contents
date	No.	
2014.10.14	1.0	New Guide Created

shaping tomorrow with you