# About this manual

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Use this form to record the software settings.

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Use this form to record any failures that occur in your server.

# Product Names

The following expressions and abbreviations are used to describe the product names used in this manual.

| Product names | Expressions and abbreviations | |
|---|---|---|
| PRIMERGY TX150 S6 | This server or the server | |
| Microsoft® Windows Server® 2003 R2, Standard Edition(SP2) | Windows Server 2003 R2, Standard Edition | Windows 2003 |
| Microsoft® Windows Server® 2003 R2, Enterprise Edition(SP2) | Windows Server 2003 R2, Enterprise Edition | |
| Microsoft® Windows Server® 2003 , Enterprise Edition(SP2) | Windows Server 2003 , Enterprise Edition | |
| Microsoft® Windows Server® 2003, Standard Edition(SP2) | Windows Server 2003, Standard Edition | |
| Microsoft® Windows Server® 2003 R2, Standard x64 Edition(SP2) | Windows Server 2003 R2, Standard x64 Edition | |
| Microsoft® Windows Server® 2003 R2 , Enterprise x64 Edition(SP2) | Windows Server 2003 R2, Enterprise x64 Edition | |
| Microsoft® Windows Server® 2003, Standard x64 Edition(SP2) | Windows Server 2003, Standard x64 Edition | |
| Microsoft® Windows Server® 2003 , Enterprise x64 Edition(SP2) | Windows Server 2003 , Enterprise x64 Edition | |

## Trademarks

# Contents

# Configuration Sheets of Hardware

Use this form to record the hardware configuration and various settings of your server.
Put a check mark in parentheses of your server settings.

## 3.5-inch Internal Options (The bay is 1,2,3,4 from the bottom)

### SAS model

| Installed position | Installation 3.5 inch internal option |
|---|---|
| Bay 1 | ( ) 73.4 GB  ( ) 146.8 GB  ( ) 300 GB |
| Bay 2 | ( ) 73.4 GB  ( ) 146.8 GB  ( ) 300 GB |
| Bay 3 | ( ) 73.4 GB  ( ) 146.8 GB  ( ) 300 GB |
| Bay 4 | ( ) 73.4 GB  ( ) 146.8 GB  ( ) 300 GB |

### SATA model

| Installed position | Installation 3.5 inch internal option |
|---|---|
| Bay 1 | ( ) 80 GB  ( ) 160 GB  ( ) 500 GB |
| Bay 2 | ( ) 80 GB  ( ) 160 GB  ( ) 500 GB |
| Bay 3 | ( ) 80 GB  ( ) 160 GB  ( ) 500 GB |
| Bay 4 | ( ) 80 GB  ( ) 160 GB  ( ) 500 GB |

## 5-inch Internal Options (The bay is 1,2,3 from the bottom)

| Installed position | Installation 5 inch internal option (Product ID) | SCSI ID |
|---|---|---|
| Bay 1 | (Normal Installation) Internal DVD-ROM unit | |
| Bay 2 | ( ) Internal DAT72 unit  PG-DT5041 | |
| | ( ) Internal LTO unit  PG-LT102 | 5 |
| | ( ) Internal LTO2 unit  PG-LT201 | 5 |
| | ( ) Internal LTO3 unit  PG-LT302 | 5 |
| | ( ) Internal RDX unit  PG-RD1021 | |
| Bay 3 | Not available | |

## RAM module

| Installation slot | Installation RAM module |
|---|---|
| Slot 1A | ( ) 512 MB      ( ) 1 GB      ( ) 2 GB |
| Slot 1B | ( ) 512 MB      ( ) 1 GB      ( ) 2 GB |
| Slot 2A | ( ) 512 MB      ( ) 1 GB      ( ) 2 GB |
| Slot 2B | ( ) 512 MB      ( ) 1 GB      ( ) 2 GB |

## CPU

| Installation CPU |
| --- |
| ( ) Dual Core Intel® Xeon® Processor 3065 (2.33GHz/4MB) |
| ( ) Dual Core Intel® Xeon® Processor 3085 (3GHz/4MB) |
| ( ) Quad Core Intel® Xeon® Processor X3210 (2.13GHz/2x4MB) |
| ( ) Dual Core Intel® Core 2 Duo<sup>TM</sup> Processor E4600 (2.40GHz/2MB) |
| ( ) Dual Core Intel® Xeon® Processor E3110 (3GHz/6MB) |
| ( ) Quad Core Intel® Xeon® Processor X3320 (2.50GHz/6MB) |
| ( ) Quad Core Intel® Xeon® Processor X3220 (2.40GHz/2x4MB) |

## PCI card

### SAS model

| Expansion card (Product ID) | PCI slot location | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| SAS array controller card   Normal Installation | | | | | ( ) | |
| SAS array controller card   PGB2U48B/PG-248B | | | | | ( ) | |
| SAS array controller card   PGB2U48C/PG-248C | | | | | ( ) | |
| SCSI card   PG-2281 | | | | ( ) | | ( ) |
| LAN card   PG-2861 | | | | ( ) | | ( ) |
| LAN card   PG-289 | | | | ( ) | | ( ) |
| LAN card   PG-1853 | ( ) | ( ) | ( ) | | | |
| RS-232C card   GP5-162 | ( ) | | | | | |

Indicates that this item cannot be installed.

### SATA model

| Expansion card (Product ID) | PCI slot location | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| SAS array controller card   PGB248B/PG-248B | | | | | ( ) | |
| SCSI card   PG-2281 | | | | ( ) | ( ) | ( ) |
| LAN card   PG-2861 | | | | ( ) | ( ) | ( ) |
| LAN card   PG-289 | | | | ( ) | ( ) | ( ) |
| LAN card   PG-1853 | ( ) | ( ) | ( ) | | | |
| RS-232C card   GP5-162 | ( ) | | | | | |

Indicates that this item cannot be installed.

# Configuration Sheets of BIOS Setup Utility Parameters

Use this form to record the settings of the BIOS Setup Utility. If you have not changed the initial value, put a check mark in parentheses of "The initial values have been unchanged".
The initial values in the dotted frame can be changed. If you change any setting, put a check mark in parentheses of the "Setting" column.
Keep the values on the gray zones unchanged.

**POINT**

▶ Follow the procedure below to start the BIOS Setup Utility.
When the following message appears on the screen during POST, press the [F2] key while the message is displayed. When POST is completed, the Main menu screen appears.

```
<F2> BIOS Setup/ <F12> Boot Menu
```

If the system starts before starting the BIOS Setup Utility, press the [Ctrl] + [Alt] + [Delete] keys simultaneously and restart the system.

## .  Parameters in the Main Menu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| System Time: | HH:MM:SS | Sets present time. |
| System Date: | MM/DD/YYYY | Sets present date. |
| Diskette A: | 1.4M | (  )None (  )360K (  )1.2M (  )720K |
| > SATA Port1-4 | | Links to the SATA Port1-4 submenu |
| > SATA Port5-6 | | Links to the SATA Port5-6 submenu |
| > Boot Features | | Links to the Boot Features submenu |
| System Memory: | 633KB | Displays the Base Memory. Unchangeable, display only |
| Extended Memory: | xxxM | Displays the Extended Memory. Unchangeable, display only |

## SATA Port1-4 Submenu

| Item | Initial value | Setting |
|---|---|---|
| SATA Port x:    [<HDD Device Name>] | | |
| | | |
| Total Sectors: | xxxx | Display such as device capacity, LBA Mode, DMA transfer |
| Maximum Capacitry: | xxx Gbyte | mode, version of the firmware. (Unchangeable, display only) |
| Multi-Sector Transfers: | x Sectors | |
| LBA Mode Control: | Enabled | |
| 32 Bit I/O: | Enabled | |
| Transfer Mode: | FPIO x/DMA x | |
| Ultra DMA Mode: | Mode x | |
| SMART Monitoring: | Enabled | |
| Firmware: | x.xxx | |

## SATA Port 5-6 Submenu

| Item | Initial value | Setting |
|---|---|---|
| SATA Port x:    [CD/DVD Device Name] | | |
| | | |
| Multi-Sector Transfers: | Enabled | Displays such as LBA mode, DMA transfer mode and the |
| LBA Mode Control: | Enabled | version of the firmware.  Unchangeable, display only |
| 32 Bit I/O: | Enabled | |
| Transfer Mode: | FPIO x/DMA x | |
| Ultra DMA Mode: | Mode x | |
| SMART Monitoring: | Enabled | |
| Firmware: | x.xxx | |

## Boot Features Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Boot Features | | |
| | | |
| POST Errors | Enabled | (  )Disabled |
| Keyboard Check | Enabled | (  )Disabled |
| Fast Boot: | Disabled | (  )Enabled |
| POST Diagnostic Screen: | Enabled | (  )Disabled |
| Boot Menu: | Enabled | (  )Disabled |
| NumLock: | Auto | (  )On (  )Off |

# .    Parameters in the Advanced Menu

| Item | Initial value | Setting |
|---|---|---|
| Setup Warning<br>Setting items on this menu to incorrect values<br>may cause your system to malfunction | | |
| > Peripheral Configuration | | Links to the Peripheral Configuration submenu |
| > Advanced System Configuration | | Links to the Advanced System Configuration submenu |
| > Advanced Processor Options | | Links to the Advanced Processor Options submenu |
| > PCI Configuration | | Links to the PCI Configuration submenu |

## Peripheral Configuration Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Peripheral Configuration | | |
| Serial 1: | Auto | ( )Disabled ( )Enabled ( )OS Controlled |
| Serial Port1 Address: *1 | 3F8/IRQ4 | ( )2F8/IRQ3 ( )3E8/IRQ4 ( )2E8/IRQ3 |
| Serial Multiplexer: *2 | System | ( )iRMC |
| Serial 2: | Disabled | ( )Enabled ( )Auto ( )OS Controlled |
| Serial 2 Address: *3 | 2F8/IRQ 3 | ( )3F8/IRQ4 ( )3E8/IRQ4 ( )2E8/IRQ3 |
| Parallel port: | Disabled | ( )Enabled ( )Auto |
| Parallel Mode: *4 | Bidirection | ( )Printer ( )EPP ( )ECP |
| Parallel Address: *5 | 387/IRQ7 | ( )278/IRQ5 |
| Diskette Controller: | Enabled | ( )Disabled |
| USB Front: | Enabled | ( )Disabled |
| USB Rear: | Enabled | ( )Disabled |
| USB Devices: | All | ( )None ( )Keyboard And Mouse Only |
| LAN Controller: | Enabled | ( )Disabled |
| LAN 1 Oprom: *6 | Disabled | ( )PXE ( )iSCSI |

*1 Appears when "Enabled" is selected for [Serial 1].

*2 When Serial Multiplexer is changed to [iRMC], it is necessary to change [Serial 1 ] to "Disabled".
   When Serial Multiplexer is setted as [System] and Server>Console Redirection>Console Redirection is
   changed to [Enabled] and set up the Port to Serial 1, do not connnect the modem to the Serial 1.

*3 Appears when "Enabled" is selected for [Serial 2].

*4 Appears when "Enabled","Auto" is selected for [Parallel].

*5 Appears when "Enabled" is selected for [Parallel].

*6 Appears when "Enabled" is selected for [LAN Controller].

## Advanced System Configuration Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Advanced System Configuration | | |
| On board Video: | Enabled | ( )Disabled |
| High Precision Event Timer: | Disabled | ( )Enabled |
| SMART Device Monitoring: | Enabled | ( )Disabled |
| SATA RAID Enabled: | Disabled | SATA OS installation model :( )Enabled *1 |
| | Enabled | On board SATA RAID model :( )Disabled |
| | Disabled | Array controller card installation model :<br>( )Enabled |
| SATA AHCI Enabled: *2 | Disabled | ( )Enabled |

*1 When Load Default is executed, the setting is [Enabled] no matter what initial value is.

*2 It is able to configure if [SATA RAID Enable] is [Disabled]. When [SATA RAID Enable] is set to [Enabled], it is displayed as [Enable].

## Advanced Processor Configuration Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Advanced Processor Configuration | | |
| CPU Mismatch Detection: | Enabled | ( )Disabled |
| Enhanced Speed Step: | Disabled | ( )Enabled |
| CPU Halt Mode: | Enabled | Unchangeable *1 |
| Enhanced Idle Power State: *2 | Disabled | ( )Disabled |
| CPU Thermal Management: | Enabled | ( )Enabled |
| Virtualization Technology: | Disabled | ( )Enabled *3 |
| NX Memory Protection: | Disabled | ( )Enabled |
| Adjacent Cache Line Prefetch: | Enabled | ( )Disabled |
| Hardware Prefetc: | Enabled | ( )Disabled |
| Core Multi-Processing: | Enabled | ( )Disabled |
| Limit CPUID Functions: | Disabled | ( )Enabled |
| CPU MC Status Clear: | Next Boot | ( )Enabled ( )Disabled |

*1 Load Default is displayed when setup the BIOS after reboot, not right after the configuration.

*2 Appears when Xeon 3065/3085/X3320/E3110/Core2Duo E4600 is installed.

*3 The item is not displayed with Core2Duo E4600.

## PCI Configuration Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| PCI Configuration | | |
| > PCI Slot Configuration | | Links to the PCI Slot Configuration Submenu |
| PCI IRQ Line 1 : | Auto Select | ( )Disabled ( )3 ( )4 ( )5 ( )7 ( )9 ( )10 ( )11 ( )12 ( )14 ( )15 |
| PCI IRQ Line 2 : | Auto Select | ( )Disabled ( )3 ( )4 ( )5 ( )7 ( )9 ( )10 ( )11 ( )12 ( )14 ( )15 |
| PCI IRQ Line 3 : | Auto Select | ( )Disabled ( )3 ( )4 ( )5 ( )7 ( )9 ( )10 ( )11 ( )12 ( )14 ( )15 |
| PCI IRQ Line 4 : | Auto Select | ( )Disabled ( )3 ( )4 ( )5 ( )7 ( )9 ( )10 ( )11 ( )12 ( )14 ( )15 |
| PCI IRQ Line 5 : | Auto Select | ( )Disabled ( )3 ( )4 ( )5 ( )7 ( )9 ( )10 ( )11 ( )12 ( )14 ( )15 |
| PCI IRQ Line 6 : | Auto Select | ( )Disabled ( )3 ( )4 ( )5 ( )7 ( )9 ( )10 ( )11 ( )12 ( )14 ( )15 |
| PCI IRQ Line 7 : | Auto Select | ( )Disabled ( )3 ( )4 ( )5 ( )7 ( )9 ( )10 ( )11 ( )12 ( )14 ( )15 |
| PCI IRQ Line 8 : | Auto Select | ( )Disabled ( )3 ( )4 ( )5 ( )7 ( )9 ( )10 ( )11 ( )12 ( )14 ( )15 |

## PCI SLOTS Configuration Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| PCI SLOTS Configuration | | |
| PCI Slot 1 Configuration Option ROM SCAN: | Disabled | ( )Enabled |
| PCI Slot 2 Configuration Option ROM SCAN: | Disabled | ( )Enabled |
| PCI Slot 3 Configuration Option ROM SCAN: | Disabled | ( )Enabled |
| PCI-E x4 Slot 4 Configuration Option ROM SCAN: | Disabled | ( )Enabled |
| PCI-E x8 Slot 5 Configuration Option ROM SCAN: | Enabled | ( )Enabled |
| PCI-E x8 Slot 6 Configuration Option ROM SCAN: | Disabled | ( )Enabled |

# .    Parameters in the Security menu

The initial values have been unchanged.

| Item | Initial value | Setting |
|------|---------------|---------|
| Supervisor Password: | Not installed | Displays whether or not the Supervisor Password is set. |
| User Password: | Not installed | Displays whether or not the User Password is set. |
| Set Supervisor Password: | Press Enter | Setting of Supervisor Password. |
| Setup Password Lock: *1 | Standard | ( )Extended |
| Set User Password: *2 | Press Enter | Setting of User Password. |
| User Password Mode: *3 | Standard | ( )Keyboard |
| Password on boot: *4 | Disabled | ( )Enabled |
| System Password Lock: *5 | Standard | ( )WOL SKIP |
| > TPM (Security Chip) Setting: *6 | | |
| Security Chip: | Disabled | ( )Enabled |
| Current TPM State | | |
| Change TPM State: *7 | No Change | ( )Enable&Activate ( )Disable&Activate ( )Clear |
| Virus Warning: | Disabled | ( )Enabled ( )Confirm |
| Diskette Write: | Enabled | ( )Disabled    (USB Device is not valid) |
| Flash Write: | Enabled | ( )Disabled |

*1 Appears when "Set Supervisor Password" is set.

*2 Can be set when "Supervisor Password" is set.

*3 Appears when "Set User Password" is set.

*4 Can be set when "Supervisor Password" is set.

*5 Appears when "Enabled" is selected for [Password on boot].

*6 It is displayed after an announcement model in May, 2008.

*7 Appears when "Enabled" is selected for [Security Chip].

# .    Parameters in the Power menu

## Power On/Off Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|------|---------------|---------|
| Power On/Off | | |
| Power On Source: | BIOS Controlled | ( )ACPI Controlled |
| Remote: | Disabled | ( )Enabled |
| LAN: | Enabled | ( )Disabled |
| Wake Up Timer: | Disabled | ( )Enabled |
| Wake Up Time: *1 | [00:00:00] | [00:00:00 ] |
| Wake Up Mode: *1 | Daily | ( )Monthly   [00:00:00 ] |
| Wake Up day: *2 | 1 | ( )[1-31] |
| Power Failure Recovery: | Previous State | ( )Alwas Off ( )Always On |

*1 It is valid if [Wake Up Timer] is [Enabled].

*2 Appears when "Monthly" is selected for [Wake Up Mode].

# . Parameters in the Server menu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| O/S Boot Timeout: | Disabled | ( )Enabled |
|   Action: | Reset | ( )Continue ( )Power Cycle |
|   Timeout Value: | 0 | ( )[1 100] |
| ASR&R Boot Delay: | 2 | ( )[1 30] |
| Power Cycle Delay: | 7 | ( )[0 15] |
| Temperature Monitoring: | Disabled | ( )Enabled |
| Boot Retry Counter: | 3 | ( )[0 7] |
| > CPU Status | | Links to the CPU Status submenu |
| > Memory Status | | Links to the Memory Status submenu |
| > PCI Status | | Links to the PCI Status submenu |
| > Console Redirection | | Links to the Console Redirection submenu |
| > IPMI | | Links to the IPMI submenu |

## CPU Status Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| CPU Status | | |
| CPU Status | Enabled | ( )Failed ( )Disabled ( )Empty *1 |

*1 This can be changed to "Enabled" only.(In case [Memory] is [Disabled] or [Failed].)
  When Load default is executed, all the slots status will be changed to [Enabled].
  The status of the slots will be changed to [Empty] in next startup, if the slots are not in use.

## Memory Status Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Memory Status | | |
| DIMM-1A | Enabled | ( )Failed ( )Disabled ( )Empty *1 |
| DIMM-2A | Empty | ( )Failed ( )Disabled ( )Enabled *1 |
| DIMM-1B | Empty | ( )Failed ( )Disabled ( )Enabled *1 |
| DIMM-2B | Empty | ( )Failed ( )Disabled ( )Enabled *1 |

*1 This can be changed to "Enabled" only. (In case [Memory] is [Disabled] or [Failed].)
  When Load default is executed, all the slots status will be changed to [Enabled].
  The status of the slots will be changed to [Empty] in next startup, if the slots are not in use.

## PCI Status Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| PCI Status | | |
| | | |
| Slot 1 | Empty | ( )Failed ( )Enabled *1 |
| Slot 2 | Empty | ( )Failed ( )Enabled *1 |
| Slot 3 | Empty | ( )Failed ( )Enabled *1 |
| Slot 4 | Empty | ( )Failed ( )Enabled *1 |
| Slot 5 | Empty | ( )Failed ( )Enabled *1 |
| Slot 6 | Empty | ( )Failed ( )Enabled *1 |

*1 This can be changed to "Enabled" only. (In case [Memory] is [Disabled] or [Failed].)
   When Load default is executed, all the status of the PCI slots will be changed to [Enabled].
   PCI status will be returned to [Empty] in next startup, if the PCI slots are not used.

## Console Redirection Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Console Redirection | | |
| | | |
| Console Redirection | Disabled | ( )On-board COM A ( )On-board COM B |
| Baud Rate | 9600 | ( )300 ( )1200 ( )2400 ( )19.2K |
| | | ( )38.4K ( )57.6K ( )115.2K |
| Console Type | VT100+ | ( )VT100 ( )VT100,8bit ( )PC-ANSI,7bit |
| | | ( )PC-ANSI ( )VT-UTF8 ( )ASCII |
| Flow Control | CTS/RTS | ( )None ( )XON/XOFF |
| Continue C.R. after POST | On | ( )Off |

## IPMI Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| IPMI | | |
| | | |
| SM Error Halt: | Enabled | ( )Disabled |
| iRMC Time Sync: | Enabled | ( )Disabled |
| Clear System Event Log: *1 | Disabled | ( )Enabled |
| Event Log Full Mode: | Overwrite | ( )Maintain |
| | | |
| Date Format to show: | MM DD YYYY | ( )DD MM YYYY ( )YYYY MM DD |
| Date Separator: | / | |
| | | |
| > System Event Log | | Displays the log saved on SEL. |
| | | Pressing the [+] [-] keys changes the entries. |
| > System Event Log(list mode) | | Displays the log saved on SEL. |
| | | The event logs are displayed in a list. |
| > Realtime Sensor Data | | Confirms the sensor information. |
| > LAN Settings | | Links to the LAN Settings Submenu |
| > IPMI Status | | Links to the IPMI Status Submenu |

*1 When there is not an entry of SEL, it is not displayed.

## LAN Settings Submenu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| LAN Settings | | |
| Service LAN: | Enabled | ( )Disabled |
| Service LAN Port: | Disabled | ( )Enabled |
| DHCP: | Disabled | ( )Enabled |
| Local IP address: *1 | [000.000.000.001] | IP address of iRMC |
| | | [ . . . ] |
| Subnet mask | [000.000.000.000] | Subnet mask |
| | | [ . . . ] |
| Gateway address | [000.000.000.000] | Gateway address |
| | | [ . . . ] |

*1 When DHCP is set to "Disabled", Local IP Address cannot be set to [000.000.000.000].

## IPMI Status Submenu

| Item | Initial value | Setting |
|---|---|---|
| IPMI Status | | |
| IPMI Specification Version: | | Display the version of IPMI (Unchangeable, display only) |
| BMC Hardware Version: | | Display the hardware version of BMC (Unchangeable, display only) |
| iRMC Firmware Version: | | Display the firmware version of iRMC (Unchangeable, display only) |
| SDRR Version: | | Display the version of SDRR (Unchangeable, display only) |
| SEL Load: | | The loaded percentage on the SEL |
| Existing Event Log number: | | Display the entries number of SEL  Unchangeable, display only) |
| Remaining Event Log number: | | Displays SEL free space (Unchangeable, display only) |

# . Parameters in the Boot menu

## Boot menu

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Boot priority order:<br> 1:<br> 2:<br> 3:<br> 4:<br> 5:<br> 6:<br> 7:<br> 8:<br><br>Excluded from boot order:<br> :Legacy Network Card<br> :Bootable Add-in Cards | <br>IDE CD:CD Device name *1<br>Legacy Floppy Drives<br>IDE x:HDD Device name *2<br>PCI BEV:Boot Manage PXE,Slot 0400 *3<br>PCI BEV: MBA v10.0.9 Slot 0400 *4 | |

*1:The name of CD-ROM devices on the display vary as below.

| Mode | on the display |
|---|---|
| Native | IDE: Device name |
| SATA RAID Enable | PCI BEV: Device name |

After setting [Get Default], the startup order from HDD as the lowest in announcement model (BIOS1.02) in February, 2008.

*2:The name of HDD devices on the display vary as below.

| Mode | on the display |
|---|---|
| Native | IDE: Device name |
| MegaSR | PCI SCSI: Software RAID |
| SAS array controller card as a standard | PCI SCSI: #0200 ID05 LUN0 LSILOGIC L |
| PG-248B/C | PCI SCSI: (Bus02 Dev00)PCI RAID Ad |

*3:Appears when "PXE" is selected for [LAN 1 Oprom].
*4:Appears when "iSCSI" is selected for [LAN 1 Oprom].

# . Parameters in the Exit menu

| Item | Initial value | Setting |
|---|---|---|
| Save Changes & Exit: | | Saves the current settings to CMOS and exit BIOS Setup Utility. |
| Discard Changes & Exit: | | Exits BIOS Setup Utility without saving current settings to CMOS. |
| Get Default Values: | | Returns to the default values of the server for all items. |
| Load Previous Values: | | Sets all items to the values before the last changes by reading from CMOS. |

1 IPMI-LAN Setting value is retained previous setting value.

# Configuration Sheets of Remote Management Controller's Web interface

Use this form to record the settings of the Remote Management Controller Web interface. If you have not change the initial value, put a check mark in parentheses of "The initial values have been unchanged".
The initial values in the dotted frame can be changed.

## . Parameters in the iRMC S2 Information

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| iRMC S2 Information<br>Firmware Information | | Displays iRMC information. |
| Firmware Selector | Auto<br><br>**Unchangeable** | (    )Auto -  EEPROM with highest FW version<br>(    )Low EEPROM<br>(    )High EEPROM<br>(    )Select with olest FW version<br>(    )Select most recently programmed FW<br>(    )Select least recently programmed FW |
| License Key | | License Key   Not displayed input data. |
| Upload | Not Upload | (    )Not Upload    (    )Upload |
| Certificate Upload<br>   Certificate Upload | | |
| CA Certificate upload from file | CA Certificate in standard iRMC | (    )Not Upload    (    )Upload<br>Unsupported |
| SSL Certificate and DSA/RSA private key upload from file | Certificate in standard iRMC | (    )Private Key File<br>(    )Certificate File |
| Please paste your DSA certificate or DSA private key into the text area below! | Certificate in standard iRMC | enter the inside box |
| Generate Certificate | | |
| Common Name (CN) | DNS setting value | [                                    ] |
| Organization Name (O) | iRMC S2 | [                                    ] |
| Organizational Unit Name (OU) | | [                                    ] |
| Country Name (C) | | [           ] |
| State or Province  Name (ST) | | [                                    ] |
| Locality Name (L) | | [                                    ] |
| Email Address | | [                                    ] |
| Valid for [days] | 730 | [           ] |
| Key Length [bits] | 1024 | (    ) 512          (    ) 1024 |

# . Parameters in the Power Management

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Power On/Off<br>  Power Status Summary | | |
| Boot Options | BIOS setting is reflected | (　)Halt on errors　(　)Continue |
| Boot Device Selector | No change | (　)PXE/iSCSI　(　)Hard-drive<br>(　)CDROM/DVD　(　)Froppy |
| Power Options<br>Power Restore Pollicy | | |
| | BIOS setting is reflected | (　)Always Power off<br>(　)Always Power on<br>(　)Restore to powered state prior to power loss |
| Power On/Off Time | | Sets schedule On/Off time. |
| | None | On Time[　　　] Off Time[　　　] Sunday |
| | None | On Time[　　　] Off Time[　　　] Monday |
| | None | On Time[　　　] Off Time[　　　] Tuesday |
| | None | On Time[　　　] Off Time[　　　] Wednesday |
| | None | On Time[　　　] Off Time[　　　] Thursday |
| | None | On Time[　　　] Off Time[　　　] Friday |
| | None | On Time[　　　] Off Time[　　　] Saturday |
| | None | On Time[　　　] Off Time[　　　] Everyday |

# .    Parameters in the Power Consumption

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Power consumption configuration<br>Power Consumption Options | | controll the power consumption |
|   Power Control Mode | Power Mgmt. Disabled | (  )Best Performance  (  )Minimum Power<br>(  )Scheduled |
| Scheduled Power Consumption Configuration | | Appears when "Scheduled" is selected for [Power Control Mode]. |
|   Sunday | Time[HH:MM] no value<br>Mode<br>   Power Mgmt. Disabled | Time1 [        ] Mode1   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power<br>Time2 [        ] Mode2   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power |
|   Monday | Time[HH:MM] no value<br>Mode<br>   Power Mgmt. Disabled | Time1 [        ] Mode1   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power<br>Time2 [        ] Mode2   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power |
|   Tuesday | Time[HH:MM] no value<br>Mode<br>   Power Mgmt. Disabled | Time1 [        ] Mode1   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power<br>Time2 [        ] Mode2   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power |
|   Wednesday | Time[HH:MM] no value<br>Mode<br>   Power Mgmt. Disabled | Time1 [        ] Mode1   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power<br>Time2 [        ] Mode2   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power |
|   Thursday | Time[HH:MM] no value<br>Mode<br>   Power Mgmt. Disabled | Time1 [        ] Mode1   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power<br>Time2 [        ] Mode2   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power |
|   Friday | Time[HH:MM] no value<br>Mode<br>   Power Mgmt. Disabled | Time1 [        ] Mode1   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power<br>Time2 [        ] Mode2   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power |
|   Saturday | Time[HH:MM] no value<br>Mode<br>   Power Mgmt. Disabled | Time1 [        ] Mode1   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power<br>Time2 [        ] Mode2   (  )Power Mgmt. Disabled<br>(  )Best Performance<br>(  )Minimum Power |

# .    Parameters in the Fans

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Fan Test | | Sets Fan Test time. |
| Fan Check Time | 23:00 | [        ] HH:MM |
| | | |
| Analog Fans | | Sets the operation at the Fan malfunction. |
| 0 FAN1 SYS | continue | (    )shutdown-and-power-off  Deley[        ]sec |
| 1 FAN PSU | continue | (    )shutdown-and-power-off  Deley[        ]sec |

# .    Parameters in the Temperature

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Temperature Sensor Information | | Sets the operation at the temperature malfunction. |
| 0 Ambient | continue | (    )shutdown-and-power-off |
| 1 Systemboard | continue | (    )shutdown-and-power-off |
| 2 CPU | continue | (    )shutdown-and-power-off |

# .    Parameters in the System Event Log

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| System Event Log Content | | Displays System Event Log |
| Display Critical | Enabled | (    )Enabled    (    )Disabled |
| Display Major | Enabled | (    )Enabled    (    )Disabled |
| Display Minor | Disabled | (    )Enabled    (    )Disabled |
| Display Info | Disabled | (    )Enabled    (    )Disabled |
| System Event Log Configuration | | |
| Display Critical | Enabled | (    )Enabled    (    )Disabled |
| Display Major | Enabled | (    )Enabled    (    )Disabled |
| Display Minor | Disabled | (    )Enabled    (    )Disabled |
| Display Info | Disabled | (    )Enabled    (    )Disabled |
| SEL Type | Ring SEL | (    )Ring SEL    (    )IPMI SEL |

# .　Parameters in the Server Management Information

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| ASR&R Options | | |
| ASR & R Boot Delay | BIOS setting is reflected | [      ]minutes |
| Retry counter | BIOS setting is reflected | [      ] |
| BIOS recovery flash bit | Disabled | (    )Disabled    (    )Enabled |
| Power Cycle Delay | BIOS setting is reflected | [      ]seconds |
| Watchdog Settings | BIOS setting is reflected for Boot | Sets Watchdog |
| Software Watchdog: | Disabled | (    )Enabled |
| | Continue | (    )Continue  (    )Reset  (    )Power Cycle |
| | | timeout delay: [      ]minutes |
| Boot Watchdog: | Disabled | (    )Enabled |
| | Continue | (    )Continue  (    )Reset  (    )Power Cycle |
| | | timeout delay: [      ]minutes |
| HP System Insight Manager (HP SIM) Integration Options | | Reply right or wrong setting to HP SIM |
| Software Watchdog: | Disabled | (    )Enabled |

# .　Parameters in the Network Settings

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Ethernet | | |
| 　IP configuration | | |
| 　　MAC Address | | Displays MAC address of iRMC. |
| 　　LAN Speed | Auto Negotiation | (　)Auto Negotiation<br>(　)100MBit/s Full Duplex<br>(　)100MBit/s Half Duplex<br>(　)10MBit/s Full Duplex<br>(　)10MBit/s Half Duplex |
| 　　LAN Port | Service LAN | (　)Service LAN<br>(　)Shaerd LAN |
| 　　IP Address | BIOS setting is reflected | [　　.　　.　　.　　] |
| 　　Subnet Mask | BIOS setting is reflected | [　　.　　.　　.　　] |
| 　　Gateway | BIOS setting is reflected | [　　.　　.　　.　　] |
| 　　DHCP enable | BIOS setting is reflected | (　)Enabled　(　)Disabled |
| 　VLAN configuration | | |
| 　　VLAN enable | Disabled | (　)Enabled |
| 　　VLAN Id | 0 | [　　]1 - 4094 |
| 　　VLAN Priority | 0 | [　　]0 - 7 |
| Ports and Network Services | | |
| 　Web based access | | |
| 　　Session timeout | 300 | [　　　]60 - 60000 |
| 　　HTTP Port | 80 | [　　　]1 - 65535 |
| 　　HTTPS Port | 443 | [　　　]1 - 65535 |
| 　　Force HTTPS | Disabled | (　)Enabled　(　)Disabled |
| 　　Enable Auto Refresh | Enabled | (　)Enabled　(　)Disabled |
| 　　Refresh every xxx seconds | 120 | [　　　]10 - 60000 |
| 　Text based accsess | | |
| 　　Telnet Port | 3172 | [　　　]1 - 65535 |
| 　　Telnet Drop Time | 600 | [　　　]15 - 60000 |
| 　　SSH Port | 22 | [　　　]1 - 65535 |
| 　　Telnet enabled | Disabled | (　)Enabled　(　)Disabled |
| 　VNC Ports | | |
| 　　Standard Port (via HTTP) | same as HTTP Port | work with HTTP  Port |
| 　　Secure Port (via HTTPS) | same as HTTPS Port | work with HTTPS  Port |
| 　Remote Storage Ports | | |
| 　　Standard Port | 5901 | [　　　]1 - 65535 |
| DHCP Configuration | | |
| 　　Register DHCP Address in DNS | Enabled | (　)Enabled　(　)Disabled |
| 　　Use iRMC Name instead of Hostname | Enabled | (　)Enabled　(　)Disabled |
| 　　Add Serial Number | Enabled | (　)Enabled　(　)Disabled |
| 　　Add Extension | Disabled | (　)Enabled　(　)Disabled |
| 　　iRMC Name | IRMC | [　　　] |
| 　　Extension | -iRMC | [　　　] |
| DNS Settings | | |
| 　　DNS enabled | Enabled | (　)Enabled　(　)Disabled |
| 　　Obtain DNS configuration from DHCP | Enabled | (　)Enabled　(　)Disabled |
| 　　DNS Domain | domain.com | [　　　　　　　　] |
| 　　DNS Server1 | 0.0.0.0 | [　　.　　.　　.　　] |
| 　　DNS Server2 | 0.0.0.0 | [　　.　　.　　.　　] |
| 　　DNS Server3 | 0.0.0.0 | [　　.　　.　　.　　] |
| 　　DNS Server4 | 0.0.0.0 | [　　.　　.　　.　　] |
| 　　DNS Server5 | 0.0.0.0 | [　　.　　.　　.　　] |

# .    Parameters in the SNMP Trap Alerting

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| SNMP Trap Destination | | |
| SNMP Community | public | [                    ] |
| SNMP Server1 | 0.0.0.0 | [                    ] |
| SNMP Server2 | 0.0.0.0 | [                    ] |
| SNMP Server3 | 0.0.0.0 | [                    ] |
| SNMP Server4 | 0.0.0.0 | [                    ] |
| SNMP Server5 | 0.0.0.0 | [                    ] |
| SNMP Server6 | 0.0.0.0 | [                    ] |
| SNMP Server7 | 0.0.0.0 | [                    ] |

# .    Parameters in the Email Alerting

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| Global Email Paging Configuration | | |
| Email Alerting Enable | Disabled | (   )Enabled |
| SMTP Retries | 3 | [        ]0 - 7 |
| SMTP Retry Delay | 240 | [        ]0 - 255 |
| SMTP Response Timeout | 45 | [        ]10 - 60000 |
| Primary SMTP Server Configuration | | |
| SMTP Server | 0.0.0.0 | [                    ] |
| SMTP Port | 25 | [        ]1 - 65535 |
| Auth Type | None | (   )None    (   )SMTP AUSH(RFC2554) |
| Auth UserName *1 | | [                ] |
| Auth Password *1 | | *Displays |
| Confirm Password *1 | | *Displays |
| Secondary SMTP Server Configuration | | |
| SMTP Server | 0.0.0.0 | [                    ] |
| SMTP Port | 25 | [        ]1 - 65535 |
| Auth Type | None | (   )None    (   )SMTP AUSH(RFC2554) |
| Auth UserName *1 | | [                ] |
| Auth Password *1 | | *Displays |
| Confirm Password *1 | | *Displays |
| Mail Format dependend Configuration | | |
| From | MailFrom@domain.com | [                            ] |
| Subject | FixedMailSubject | [                            ] |
| Message | FixedMailMessage | [                            ] |
| Admin. Name | ITS_UserInfo0 | [                            ] |
| Admin. Phone | ITS_UserInfo1 | [                            ] |
| REMCS Id | | Unchangeable |
| Server URL | http://www.server.com | [                            ] |

*1  Appears when "SMTP AUTH(RFC 2554)" is selected for [Auth Type].

# .　　Parameters in the User Management

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| iRMC User Information | | |
| ID/Name | 2　admin | 2　[　　　　　　　] |
| | None | 3　[　　　　　　　] |
| | None | 4　[　　　　　　　] |
| | None | 5　[　　　　　　　] |
| | None | 6　[　　　　　　　] |
| | None | 7　[　　　　　　　] |
| | None | 8　[　　　　　　　] |
| | None | 9　[　　　　　　　] |
| | None | 10　[　　　　　　　] |
| | None | 11　[　　　　　　　] |
| | None | 12　[　　　　　　　] |
| | None | 13　[　　　　　　　] |
| | None | 14　[　　　　　　　] |
| | None | 15　[　　　　　　　] |
| | None | 16　[　　　　　　　] |

The User Name is displayed that is created by [New User]. Clicking "UserName" displays a setting window for each UserName.

The default settings or the settings that are configured when creating a new user are displayed on the setting window. The setting is available up to user number 16th. (Unable to set at user number 1.)

## User "admin(2)" Configuration

The initial values have been unchanged.

| Item | Initial value | Setting |
|---|---|---|
| **Access Information** | | |
| User Enabled | Enabled | ( )Disabled ( )Enabled |
| Name | admin | [                    ] |
| Password | | Displays |
| Confirm Password | | Enter the password again to confirm it. |
| User Description | User02 Description | [                              ] |
| User Shell | Remote Manager | ( )SMASH CLP<br>( )Remote Manager<br>( )IPMI Basic Mode<br>( )IPMI Terminal Mode<br>( )None |
| **Privilege / Shell** | | |
| IPMI LAN Privilege | OEM | ( )User ( )Operater ( )Administorator<br>( )OEM |
| IPMI Serial Privilege | OEM | ( )User ( )Operater ( )Administorator<br>( )OEM |
| Configure User Accounts | Enabled | ( )Disabled ( )Enabled |
| Configure iRMC settings | Enabled | ( )Disabled ( )Enabled |
| Video Redirection enabled | Enabled | ( )Disabled ( )Enabled |
| Remote Storage enabled | Enabled | ( )Disabled ( )Enabled |
| **Email Configuration** | | |
| Email Enabled | Disabled | ( )Disabled ( )Enabled |
| Mail Format | Standard | ( )Standard ( )Fixed Subject<br>( )ITS Format ( )Fujitsu REMCS-Format |
| Prefered Mail Server | Automatic | ( )Automatic ( )Primary ( )Secondary |
| Email Address | User02@domain.com | [                              ] |
| Fan Sensors | WARNING | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Temperature Sensors | WARNING | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Critical Hardware Errors | ALL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| System Hang | CRITICAL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| POST Errors | ALL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Security | WARNING | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| System Status | NONE | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Disk Drivers & Controllers | CRITICAL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Network Interface | WARNING | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Remote Management | CRITICAL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| System Power | WARNING | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Memory | CRITICAL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Others | NONE | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |

This is the UserName setting window for user ID 2.
The user ID 2  admin  is the UserName/ID as initial value.

## User "＿＿＿( )" Configuration

The user is not newly created.

| Item | Initial value | Setting |
|---|---|---|
| Access Information | | |
| User Enabled | Setting at creating a new user | ( )Disabled ( )Enabled |
| Name | Setting at creating a new user | [                    ] |
| Password | Setting at creating a new user | Displays |
| Confirm Password | | Enter the password again to confirm it. |
| User Description | Setting at creating a new user | [                        ] |
| User Shell | Setting at creating a new user | ( )SMASH CLP<br>( )Remote Manager<br>( )IPMI Basic Mode<br>( )IPMI Terminal Mode<br>( )None |
| Privilege / Shell | | |
| IPMI LAN Privilege | Setting at creating a new user | ( )User ( )Operater ( )Administorator<br>( )OEM |
| IPMI Serial Privilege | Setting at creating a new user | ( )User ( )Operater ( )Administorator<br>( )OEM |
| Configure User Accounts | Setting at creating a new user | ( )Disabled ( )Enabled |
| Configure iRMC settings | Setting at creating a new user | ( )Disabled ( )Enabled |
| Video Redirection enabled | Setting at creating a new user | ( )Disabled ( )Enabled |
| Remote Storage enabled | Setting at creating a new user | ( )Disabled ( )Enabled |
| Email Configuration | | |
| Email Enabled | Disabled | ( )Disabled ( )Enabled |
| Mail Format | Standard | ( )Standard ( )Fixed Subject<br>( )ITS Format ( )Fujitsu REMCS-Format |
| Prefered Mail Server | Automatic | ( )Automatic ( )Primary ( )Secondary |
| Email Address | | [                              ] |
| Fan Sensors | WARNING | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Temperature Sensors | WARNING | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Critical Hardware Errors | ALL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| System Hang | CRITICAL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| POST Errors | ALL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Security | WARNING | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| System Status | NONE | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Disk Drivers & Controllers | CRITICAL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Network Interface | WARNING | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Remote Management | CRITICAL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| System Power | WARNING | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Memory | CRITICAL | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |
| Others | NONE | ( )NONE ( )CRITICAL ( )WARNING ( )ALL |

This is the UserName setting window for user ID 3 to 16.
The user ID 3 to 16 have same settings as initial value. Copy this sheet when two or more users are created.

# .      Parameters in the LDAP Configuration

The initial values have been unchanged.

| Item | Initial value | Setting |
|------|--------------|---------|
| Directory Service Configuration | | |
| Global Directory Service Configuration | | |
| LDAP Enable | Disabled | (   )Disabled   (   )Enabled |
| LDAP SSL Enable | Disabled | (   )Disabled   (   )Enabled |
| Disable Local Login [1] | Disabled | (   )Disabled   (   )Enabled |
| Always use SSL Login | Disabled | (   )Disabled   (   )Enabled |
| Directory Server Type | Active Directory | (   )ActiveDirectory (   )Novel (   )OpenLDAP |
| LDAP Server 1 | 0.0.0.0 | [                    ] |
| LDAP Server 2 | 0.0.0.0 | [                    ] |
| Domain name | domain.com | [                ] |
|   Base DN | | *Only displayed |
| Dept. name | department | [                ] |
| Directory Service Access Configuration | | |
| LDAP Auth UserName | LDAPuserName | [                                    ] |
| LDAP Auth Password | ************ | [                                ]displays as " ". |
| Confirm Password | | Enter the password again to confirm it. |

*1 [Cautions] Under the setting of valid LDAP and unusable diretry server, it is impossible to log-in to the Web interface if this setting is valid. Novel eDirectory and OpenLDAP are not supported.

# .      Parameters in the BIOS Text Console

The initial values have been unchanged.

| Item | Initial value | Setting |
|------|--------------|---------|
| BIOS Console Redirection Options | BIOS setting is reflected | |
| Console Redirection Enabled | | (   )Disabled   (   )Enabled |
| Console Redirection Mode | | (   )Standard   (   )Enhanced |
| Console Redirection Port | | (   )COM1 (   )COM2 |
| Serial Port Baudrate | | (   )1200 (   )2400 (   )4800 (   )9600 (   )19200 (   )38400 (   )57600 (   )115200 |
| Serial Port Flow Control | | (   )None (   )XON/XOFF (   )CTS/RTS |
| Terminal Emulation | | (   )VT100 7Bit (   )VT100 8Bit (   )PC-ANSI 7Bit (   )PC-ANSI 8Bit (   )VT100+ (   )VT-UTF8 |
| Serial 1 Multiplexer | | (   )System (   )iRMC |

# .      Parameters in the Advanced Video Redirection

The initial values have been unchanged.

| Item | Initial value | Setting |
|------|--------------|---------|
| Local Monitor | | |
| Enable Local Monitor Off | Disabled | (   )Enabled   (   )Disabled |
| Automatic Local Monitor Off when AVR is active | Disabled | (   )Enabled   (   )Disabled |
| Local Monitor Switch button | Always On | (   )AlwaysOn (   )Turn Off (   )Turn On |

The Local Monitor Switch button cannot be changed from Always On, if Enable Local Monitor Off is disabled; it can be changed between Turn Off and Turn On, if Enable Local Monitor Off is enabled.

# Design Sheet of the RAID Configuration

Use this form to record the definitions of the disk groups (or the physical packs) and the logical drives in the RAID configuration (array configuration).

## . **For RAID 5/6 SAS based on LSI MegaRAID**

### Content of Definition of the Disk Group

Installation PCI Slot

| Installation HDD Slot / Bay | HDD model name | HDD capacity | Disk group / Spare disk * |
|---|---|---|---|
| e.g.  Bay1 | PG-HDB75A | 73.4GB | (✓)Disk group [0] <br> (  )Spare disk |
| e.g.  Bay2 | PG-HDB75A | 73.4GB | (✓)Disk group [0] <br> (  )Spare disk |
| Bay1 | | | (  )Disk group [  ] <br> (  )Spare disk |
| Bay2 | | | (  )Disk group [  ] <br> (  )Spare disk |
| Bay3 | | | (  )Disk group [  ] <br> (  )Spare disk |
| Bay4 | | | (  )Disk group [  ] <br> (  )Spare disk |

\* When the hard disk is included in the disk group, put a checkmark to "Disk group" and fill in the disk group number in [ ]. The disk group number is allocated in order defining it like 0, 1, 2, ….  When the hard disk is set as a spare disk, put a checkmark to "Spare disk".

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# D Design Sheet of the RAID Configuration

## Content of Definition of the Logical Drive

Installation PCI Slot

| Logical drive number<br>LD No. *1 | Disk group number<br>DG No. *2 | RAID level *3 | Logical drive capacity | Write policy |
|---|---|---|---|---|
| e.g.　LD : 0 | DG : 0 | ( )RAID 0<br>(✓)RAID 1<br>( )RAID 5<br>( )RAID 6<br>( )RAID 10 | 34464 MB | (✓)Write Through<br>( )Write Back<br>( )Bad BBU |
| e.g.　LD : 1 | DG : 0 | ( )RAID 0<br>(✓)RAID 1<br>( )RAID 5<br>( )RAID 6<br>( )RAID 10 | 34464 MB | (✓)Write Through<br>( )Write Back<br>( )Bad BBU |
| LD : | DG : | ( )RAID 0<br>( )RAID 1<br>( )RAID 5<br>( )RAID 6<br>( )RAID 10 | | ( )Write Through<br>( )Write Back<br>( )Bad BBU |
| LD : | DG : | ( )RAID 0<br>( )RAID 1<br>( )RAID 5<br>( )RAID 6<br>( )RAID 10 | | ( )Write Through<br>( )Write Back<br>( )Bad BBU |
| LD : | DG : | ( )RAID 0<br>( )RAID 1<br>( )RAID 5<br>( )RAID 6<br>( )RAID 10 | | ( )Write Through<br>( )Write Back<br>( )Bad BBU |
| LD : | DG : | ( )RAID 0<br>( )RAID 1<br>( )RAID 5<br>( )RAID 6<br>( )RAID 10 | | ( )Write Through<br>( )Write Back<br>( )Bad BBU |
| LD : | DG : | ( )RAID 0<br>( )RAID 1<br>( )RAID 5<br>( )RAID 6<br>( )RAID 10 | | ( )Write Through<br>( )Write Back<br>( )Bad BBU |
| LD : | DG : | ( )RAID 0<br>( )RAID 1<br>( )RAID 5<br>( )RAID 6<br>( )RAID 10 | | ( )Write Through<br>( )Write Back<br>( )Bad BBU |
| LD : | DG : | ( )RAID 0<br>( )RAID 1<br>( )RAID 5<br>( )RAID 6<br>( )RAID 10 | | ( )Write Through<br>( )Write Back<br>( )Bad BBU |
| LD : | DG : | ( )RAID 0<br>( )RAID 1<br>( )RAID 5<br>( )RAID 6<br>( )RAID 10 | | ( )Write Through<br>( )Write Back<br>( )Bad BBU |

*1 Fill in the logical drive number. The logical drive number is allocated in order
　 defining it like 0, 1, 2, ….
*2 Fill in the disk group number defined in "　Disk group definitions".
*3 Transcribe RAID 0+1 into RAID 10 in this book.

# .    For Integrated Mirroring SAS

## Content of Definition of the Logical Drive

| Installation HDD Slot / Bay | | HDD model name | HDD capacity | Logical drive capacity |
|---|---|---|---|---|
| e.g. | Bay1 | PG-HDB75A | 73.4GB | 69618 MB |
| e.g. | Bay2 | PG-HDB75A | 73.4GB | 69618 MB |
| | Bay1 | | | |
| | Bay2 | | | |

# .    For Embedded MegaRAID SATA

## Content of Definition of the Logical Drive

| Installation HDD Slot / Bay | | HDD model name | HDD capacity | Logical drive |
|---|---|---|---|---|
| e.g. | Bay1 | PG-HDF67B | 160GB | Logical drive [0] |
| e.g. | Bay2 | PG-HDF67B | 160GB | Logical drive [0] |
| | Bay1 | | | Logical drive [  ] |
| | Bay2 | | | Logical drive [  ] |
| | Bay3 | | | Logical drive [  ] |
| | Bay4 | | | Logical drive [  ] |

| Logical drive No. LD No. | | RAID level | Logical drive capacity | |
|---|---|---|---|---|
| e.g. | LD : 0 | (  )RAID 0 (✓)RAID 1 | 151634 MB | |
| e.g. | LD : 1 | (  )RAID 0 (✓)RAID 1 | 151634 MB | |
| | LD : | (  )RAID 0 (  )RAID 1 | | |
| | LD : | (  )RAID 0 (  )RAID 1 | | |
| | LD : | (  )RAID 0 (  )RAID 1 | | |
| | LD : | (  )RAID 0 (  )RAID 1 | | |

# Design Sheet

When setting up the server using ServerStart, select the setting values and put a check mark in parentheses below in advance to ensure setup is performed smoothly.

## . RAID/Disk Wizard

| Parameters | | Setting |
|---|---|---|
| | | ( ) Logical Drive View<br>  (The system will be used as it is, with the current RAID configuration<br>( ) Mass Storage Controller View<br>  (The RAID configuration can be specified |
| Controller | | ( ) RAID        ( ) SCSI<br>( ) Fibrechannel   ( ) IDE |
| When you select "RAID" with controller's type | | |
| Configure RAID | | ( ) Automatically      ( ) Manually |
| Existing RAID Array | | ( ) Delete Existing RAID Array |
| Controller Vendor | | |
| Controller Number | | |
| Configure RAID Manually | RAID Level | |
| | Number of Disks | |
| HotSpare | | ( ) Yes     ( ) No |
| Disk    Make copies when installing multiple disks. | | |
| | Partition    Make copies when more sheets are needed. | |
| | Volume label | |
| | File system | ( ) NTFS     ( ) FAT |
| | Partition size | ( ) Auto setting   ( )     MB |
| | Quick format | ( ) Execute    ( ) Do not execute |
| | Partition Usage | ( ) Boot   ( ) OS   ( ) Data |

# .    OS Wizard (Windows 2003 Install Wizard)

| Parameters | Setting |
|---|---|
| **Install Windows 2003** | |
| Password for Administrator account | |
| **Computer Identification** | |
| Operating System Type | **When selecting Windows Server 2003/R2 to install**<br>( ) Windows Server 2003, Standard Edition<br>( ) Windows Server 2003, Enterprise Edition<br>( ) Windows Server 2003 R2, Standard Edition<br>( ) Windows Server 2003 R2, Enterprise Edition<br><br>**Windows Server 2003  x64/R2 to install**<br>( ) Windows Server 2003, Standard x64 Edition<br>( ) Windows Server 2003, Enterprise x64 Edition<br>( ) Windows Server 2003 R2, Standard x64 Edition<br>( ) Windows Server 2003 R2, Enterprise x64 Edition |
| ServicePack(SP) | ( ) no service pack<br>( ) ServicePack1 applied<br>( ) ServicePack2 applied |
| License Mode | ( ) Number of connected devices or Number of connected users<br>( ) Concurrent users |
| User permitted | (Only when concurrent users are selected) |
| will participate in | ( ) a work group        ( ) a domain |
| Workgroup or Domain Name | (Default - MYUSERGROUP) |
| User account to create computer account (only when Domain is selected) | |
|    User account | |
|    Password | |
| Installation method | ( ) Operating system source media in Available in local CD-ROM drive<br>( ) Operating system source media in Available on a remote share |
| when installing OS from remote share | |
|    Remote Source Path | |
|    Remote Username | |
|    Remote Password | |
| To install Windows Server 2003 R2 Components | ( ) Install Windows Server 2003 R2 Components |
| Installation method | ( ) R2  Component  source media is available in local CD-ROM drive<br>( ) R2  Component  source media is available on a remote share |
| When you install it from a remote share | |
|    Remote  Source | |
|    Remote  Username | |
|    Reote Password | |
| **Installation Directory and Time zone** | |
| Time Zone | (Default -(GMT+01:00) Amsterdam, Berlin,<br>Bern, Rome, Stockholm, Vienna) |
| Installation Drive | ( ) Use default          ( ) Drive Letter |
| When selecting drive name | ( ) C: ( ) D: ( ) E: ( ) F: ( ) G: ( ) H: ( ) I: ( ) J:<br>( ) K: ( ) L: ( ) M: ( ) N: ( ) O: ( ) P: ( ) Q: ( ) R:<br>( ) S: ( ) T: ( ) U: ( ) V: ( ) W: ( ) X: ( ) Y: ( ) Z: |
| Installation Directory | ( ) Use default       ( ) Specify in advance |
|    Installation destination | (Default - \winnt) |
| **User Name** | |
| User Name | |
| Organization | |
| Computer Name | |
| Product-ID | ( )      —      —      —      — |

(continued)

| Parameters | | Setting |
|---|---|---|
| **Display settings** | | |
| Resolution | | ( ) 640 * 480    ( ) 800 * 600     ( ) 1024 * 768<br>( ) 1156 * 864   ( ) 1280 * 1024   ( ) 1600 * 1200 |
| Vrefresh | | ( ) 60 ( ) 70 ( ) 72 ( ) 75 ( ) 80 ( ) 85 ( ) 100 |
| BitsPerPel | | ( ) 16 colors      ( ) 256 colors     ( ) High Color 16bits<br>( ) True Color 24bits     ( ) True Color 32bits |
| **Network protocol** | | |
| Installation method | | ( ) Install Unattended<br>( ) Install Manually |
| Network protocol property (for auto-installation) | | |
| **Adapter 1** | Connection name | |
| | Available Protocols | ( ) TCP/IP   ( ) NWIPX   ( ) NetBEUI   ( ) Apple Talk<br>( ) DLC      ( ) NetMon   ( ) PPTP |
| | Use of DHCP<br>(When TCP/IP selected) | ( ) Use DHCP |
| | **Do not use DHCP** — IP-Address | |
| | Subnet Mask | |
| | Default Gateway | |
| | IP address (additional) | (only when added) |
| | Subnet mask (additional) | (only when added) |
| | Default gateway (additional) | (only when added) |
| | DNS domain name | (only when specified) |
| | DNS server address | (only when specified) |
| | Use WINS | ( ) Use |
| | WINS server address | DHCP (only when selected to use) |
| | NetBIOS Option | ( ) Use NetBIOS setting from the DHCP Server<br>( ) Use NetBIOS over TCP/IP<br>( ) Do not use NetBIOS over TCP/IP |
| | Only when NWIPX is selected | |
| | Internal network number | 0x |
| | Network number | 0x |
| | Frame type | |
| **Adapter 2** | Connection name | |
| | Protocol binding to this adapter | ( ) TCP/IP   ( ) NWIPX   ( ) NetBEUI   ( ) Apple Talk<br>( ) DLC      ( ) NetMon   ( ) PPTP |
| | Use of DHCP<br>(When TCP/IP selected) | ( ) Use DHCP |
| | **Do not use DHCP** — IP Address | |
| | Subnet Mask | |
| | Default Gateway | |
| | IP address (additional) | (only when added) |
| | Subnet mask (additional) | (only when added) |
| | Default gateway (additional) | (only when added) |
| | DNS domain name | (only when specified) |
| | DNS server address | (only when specified) |
| | Use WINS | ( ) Use |
| | WINS server address | DHCP (only when selected to use) |
| | NetBIOS Option | ( ) Use NetBIOS setting from the DHCP Server<br>( ) Use NetBIOS over TCP/IP<br>( ) Do not use NetBIOS over TCP/IP |
| | Only when NWIPX is selected | |
| | Internal network number | 0x |
| | Network number | 0x |
| | Frame type | |

Copy this sheet to install multiple adapters.

(continued)

| Parameters | Setting |
|---|---|
| **Software Components** | |
| Select installation method | ( ) Install default Components<br>( ) Install customized Components |
| R2 | ( ) R2 Components |
| Only when selecting R2 components to install | |
| Active Directory | ( ) Application Mode ADAM<br>( ) Claims-Aware Applications<br>( ) Traditional Applications<br>( ) Federation Service<br>( ) Federation Service Proxy |
| Distributed File System | ( ) DFS Management<br>( ) DFS Replication Service |
| File Server | ( ) Management Console |
| Microsoft Services for NFS | ( ) User Name Mapping<br>( ) Microsoft Services for NFS Administration<br>( ) Client for NFS<br>( ) Server for NFS<br>( ) RPC Portmapper<br>( ) RPC External Data Representation<br>( ) Server For NFS Authentication |
| Unix Identity Management | ( ) Administration Components<br>( ) Password Synchronisation<br>( ) Server For NIS |
| Windows SharePoint Services | Enable Windows Sharepoint Services |
| Additional Components | ( ) Common Log File System<br>( ) Microsoft .NET Framework2.0(English)<br>( ) Microsoft .NET Framework2.0(International)<br>( ) Microsoft .NET Framework2.0 Languagepack<br>( ) Print Management Console<br>( ) Storage Manager SAN<br>( ) Storage Ressource Manager<br>( ) Windows Subsystem for UNIX based Applications |
| Uninstall Componennts | ( ) uninstall hidden CFSCommonUIFX<br>( ) uninstall hidden DFSExt<br>( ) uninstall hidden DFSRHelper<br>( ) uninstall set of files from FileServerManagement Console |

E Design Sheet

| Parameters | Setting |
|---|---|
| **(Continuation of Software Components)** | |
| Only when selecting component to install | |
| Application and utilities | |
| Accessories | ( ) clipboard viewer<br>( ) Desktop Wallpaper<br>( ) Document Template<br>( ) Paint<br>( ) All available mousepointers<br>( ) Word pad<br>( ) Calculator<br>( ) Character Map |
| Accessibility Wizard | ( ) Install |
| Communications | ( ) Chat<br>( ) Hyper Terminal |
| Application server | |
| ASP.NET web development platform | ( ) Install |
| Application server console | ( ) Install |
| Internet information services (IIS) | ( ) FrontPage 2002 Server Extensions<br>( ) FTP (File Transfer Protocol) service<br>( ) NNTP Service - NNTP Service<br>( ) SMTP Service - SMTP Service<br>( ) World Wide Web Server<br>  - Internet Information Services ASP support<br>( ) World Wide Web Server<br>  - Internet Information Services web DAV publishin<br>( ) World Wide Web Server<br>  - World Wide Web (WWW) Service<br>( ) World Wide Web Server<br>  - Internet Information Services internet data connector<br>( ) World Wide Web Server<br>  - Internet Information Services web user interface |
| network COM + access | ( ) Install |
| DTC network access | ( ) Install |
| Indexing Server Files | ( ) Install |
| Terminal Services | ( ) Install |
| Terminal Services licensing | ( ) Install |
| Remote install Services | ( ) Install |
| Certificate Service | ( ) Install  ( ) Server components of the Certificate Services<br>( ) Web client component of the Certificate Services |
| POP3 root component | ( ) Install  ( ) POP3 main service<br>( ) POP3 web user interface |
| **FTP service property (Only when FTP service is selected)** | |
| FTP site directory | (Default - \Inetpub\Ftproot) |
| **WWW service property (Only when WWW service is selected)** | |
| WWW server directory | (Default - \Inetsrv\WWWroot) |
| **Terminal server property (Only when terminal server is selected)** | |
| Remote Desktop | ( ) give a authorization to remote access to this computer. |
| Please select the default access permission for compatible application. | ( ) risk-free security<br>( ) mild security |
| License mode | ( ) number of connected devices   ( ) number of connected users |

| Parameters | Setting |
|---|---|
| **Services** | |
| Other network File and Print Services | ( ) Services for Macintosh (SFM)<br>( ) Print Service for Macintosh<br>( ) Print Service for UNIX |
| Networking Services | ( ) WINS Server<br>( ) Internet Authentication Service (IAS)<br>( ) MS DNS Server<br>( ) Simple TCP/IP Service<br>( ) MS DHCP Serve |
| Management and Monitoring Tools | ( ) Network Monitor tools<br>( ) SNMP Service (Required to install SNMP-ServerView) |
| **SNMP details (Only when SNMP is selected)** | |
| Trap | |
|    Community name | |
|    Trap destination | |
| Security | |
|    Send authentication trap | ( ) Send |
|    Receivable community name | |
|    Receive SNMP packet from all hosts | ( ) Receive |
|    Host name | (only when specified) |
| Agent | |
|    Contact | |
|    Address | |
|    Service | ( ) Physical    ( ) Datalink and sub network<br>( ) End-to-End  ( ) Application  ( ) Internet |
| **Active Directory details setting (only when DNS is selected)** | |
| Install Active Directory | ( ) Install |
| Active Directory type | ( ) Create a domain in a new forest<br>( ) Additional domain controller of the existing domain<br>( ) Create a new child domain under the existing domain tree<br>( ) Create a new domain tree in the existing fores |
| Database folder | |
| Log folder | |
| SYSVOL folder location | |
| Compatibility with Windows 2000 or earlier | ( ) Permit |
| Create a domain in a new forest (only when selected) | |
|    Complete DNS name of the new domain | |
|    Domain NetBIOS name | |
| Additional domain controller of the existing domain (only when selected) | |
|    User name | |
|    Password | |
|    Domain | |
|    Complete DNS name of the existing domain | |
| Create a new child domain under the existing domain tree (only when selected) | |
|    User name | |
|    Password | |
|    Domain | |
|    Complete DNS name of the parent domain | |
|    New child domain name | |
|    Domain NetBIOS name | |
| Create a new domain tree in the existing forest (only when selected) | |
|    User name | |
|    Password | |
|    Domain name | |
|    Complete DNS name of the new domain | |
|    Domain NetBIOS name | |

(continued)

# .　　Application Wizard

| Parameters | Setting |
|---|---|
| Installable applications | ( ) Windows Server 2003 service pack1<br>( ) ServerView(Apache version)/RAID Management Tool<br>( ) ServerView(IIS version)/RAID Management Tool<br>( ) DSNAP<br>( ) Broadcom Advanced Control Suite(BACS) |
| Userspecific Command | (only when selecting additional software) |
| Userspecific Command | ( ) Install selected application from Local CD<br>( ) Install selected application from Remote Server |
| When installing from remote server | ( ) Install          ( ) Do not install |
| Remote Source Path | |
| Remote Username | |
| Remote Password | |

# .　　Server Application Wizard

| Parameters | Setting |
|---|---|
| Server application | ( ) PowerChute Business Edition<br>( ) BrightStor ARCserve Backup |

# Accident Sheet

| Name (Product ID) | PRIMERGY TX150 S6 (PG           ) | | |
|---|---|---|---|
| OS | | | |
| Environment | | | |
| | | | |
| LAN/WAN config. | | | |
| | | | |
| DATE/TIME | | | |
| Phase of accident | What did you do?, what message? etc. | | |
| | | Attached paper | Yes / No |

**PRIMERGY TX150 S6**

**Configuration Sheets**
**CA92276-8200-01**

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