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Hitachi Compute Blade 500 Series
LCD Touch Console User's Guide

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Hitachi Data Systems

MK-91CB500011-08

Contents

Preface

This document describes how to use the Compute Blade 500 series.

Notice: The use of Compute Blade 500 series and all other Hitachi Data Systems products is governed by the terms of your agreement(s) with Hitachi Data Systems.

This preface includes the following information:

Intended Audience

This document is intended for the personnel who are involved in planning, managing, and performing the tasks to prepare your site for Compute Blade installation and to install the same.

This document assumes the following:

- The reader has a background in hardware installation of computer systems.
- The reader is familiar with the location where the Compute Blade will be installed, including knowledge of physical characteristics, power systems and specifications, and environmental specifications.

Product Version

This document revision applies to management module firmware A0240.

Release Notes

Read the release notes before installing and using this product. They may contain requirements or restrictions that are not fully described in this document or updates or corrections to this document.

Document Organization

The table below provides an overview of the contents and organization of this document. Click the chapter title in the left column to go to that chapter. The first page of each chapter provides links to the sections in that chapter.

Chapter	Description
Chapter 1, LCD touch console overview	Describes the LCD touch console overview.
Chapter 2, Functional detail	Describes function of the LCD touch console in detail.
Chapter 3, Software license information	Describes software license information of LCD touch console.

Referenced Documents

- Hitachi Compute Blade 500 Series Management Module Setup Guide, MK-91CB500014

Document Conventions

This term "Compute Blade" refers to all the models of the Compute Blade, unless otherwise noted.

The Hitachi Virtualization Manager (HVM) name has been changed to Hitachi logical partitioning manager (LPAR manager, or LP). If you are using HVM based logical partitioning feature, substitute references to Hitachi logical partitioning manager (LPAR manager, or LP) with HVM.

This document uses the following typographic conventions:

Convention	Description
Regular text bold	In text: keyboard key, parameter name, property name, hardware labels, hardware button, hardware switch. In a procedure: user interface item
Italic	Variable, emphasis, reference to document title, called-out term
`Screen text`	Command name and option, drive name, file name, folder name, directory name, code, file content, system and application output, user input
< > (angled brackets)	Variable (used when italic is not enough to identify variable).
[ ] (square bracket)	Optional values
{ } braces	Required or expected value
| vertical bar	Choice between two or more options or arguments

This document uses the following icons to draw attention to information:

Icon	Meaning	Description
WARNING	WARNING	This indicates the presence of a potential risk that might cause death or severe injury.
CAUTION	CAUTION	This indicates the presence of a potential risk that might cause relatively mild or moderate injury.
NOTICE	NOTICE	This indicates the presence of a potential risk that might cause severe damage to the equipment and/or damage to surrounding properties.
Note	Note	This indicates notes not directly related to injury or severe damage to equipment.
Tip	Tip	This indicates advice on how to make the best use of the equipment.

Convention for storage capacity values

Physical storage capacity values (for example, disk drive capacity) are calculated based on the following values:

Physical capacity unit	Value
1 kilobyte (KB)	1,000 (10^3) bytes
1 megabyte (MB)	1,000 KB or $1,000^2$ bytes
1 gigabyte (GB)	1,000 MB or $1,000^3$ bytes
1 terabyte (TB)	1,000 GB or $1,000^4$ bytes
1 petabyte (PB)	1,000 TB or $1,000^5$ bytes
1 exabyte (EB)	1,000 PB or $1,000^6$ bytes

Logical storage capacity values (for example, logical device capacity) are calculated based on the following values:

Logical capacity unit	Value
1 block	512 bytes
1 KB	1,024 (2^{10}) bytes
1 MB	1,024 KB or $1,024^2$ bytes
1 GB	1,024 MB or $1,024^3$ bytes
1 TB	1,024 GB or $1,024^4$ bytes
1 PB	1,024 TB or $1,024^5$ bytes
1 EB	1,024 PB or $1,024^6$ bytes

Getting Help

The Hitachi Data Systems customer support staff is available 24 hours a day, seven days a week. If you need technical support, log on to the Hitachi Data Systems Portal for contact information: https://portal.hds.com.

Comments

Please send us your comments on this document: doc.comments@hds.com. Include the document title and number including the revision level (for example, -07), and refer to specific sections and paragraphs whenever possible. All comments become the property of Hitachi Data Systems Corporation.

Thank you!

1

LCD touch console overview

This chapter describes the LCD touch console overview.

Overview

The LCD touch console is an input/output device, which connects to the USB port of front panel in a server chassis. The LCD touch console displays the system unit status, and you can set up the system unit using the LCD touch console. This guide describes the LCD touch console functions.

The LCD touch console is a device which displays various modules status, such as server blade, switch module, power supply module, and fan module in the system unit. The outline of the LCD touch console is shown below.

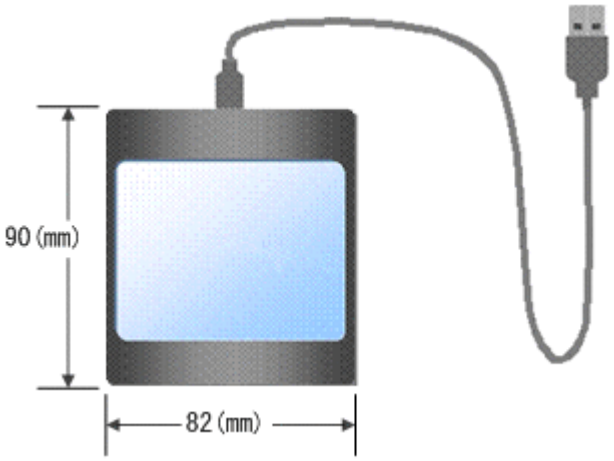

Figure 1-1 LCD touch console

Table 1-1 LCD touch console specifications

Items	Specifications
USB cable length	1.5 m
LCD touch console	Display resolution: 320x240 pixel Output color: 18 bit color Power: supplying from the server chassis Memory: no data storage place for user

Some LCD touch console functions need a USB flash drive. You need to prepare an USB flash drive with specifications shown below in the Table 1-2.

Table 1-2 USB flash drive specifications

Items	Specifications
Capacity	Up to 32 GB
Format	FAT 32
USB interface	1.1 or 2.0

Tip: In the following steps, the > mark indicates the window transition by touching a button.
Example: **Home > System settings**

The above example means that **Home** window move to **System settings** window by touching a button.

Connecting to Server chassis

For using the LCD touch console, connect the LCD touch console to a USB port of front panel in a server chassis with an attached USB cable. Both the USB port #0 and #1 of front panel in the server chassis are available for using the LCD touch console.

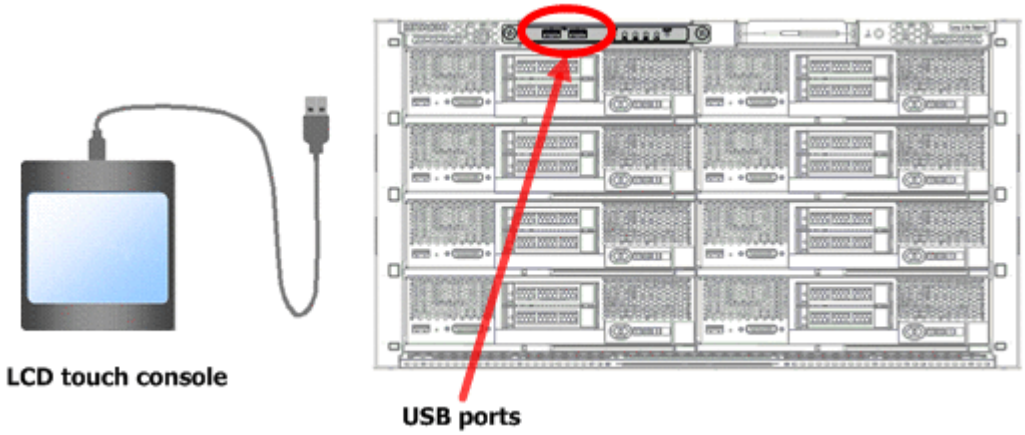

Figure 1-2 Connecting LCD touch console to server chassis

Note:

- A USB hub or a USB switching device is not available for connecting to the USB port on the front panel.
- The LCD touch console is not available when it is connected to the USB port on a server blade.
- If the LCD touch console is disabled from CLI console, it is not available even if connected to the USB port.
- If USB connection ports are set to disabled in the USB port settings, you cannot use the LCD touch console.

  If you connect the LCD touch console to a USB connection port, the LCD touch console cannot be operated while the character string `Please wait...` is displayed on the screen. In this case, remove the LCD touch console from the USB connection port.

Connect the USB flash drive to the one of USB ports of the front panel in the server chassis when using the USB flash drive for the LCD touch console. The other USB port is connected the LCD touch console.

Disconnecting from Server chassis

Perform the following procedure to remove the USB flash drive from the USB port on the server chassis.

1. Touch **USB device unmount** on the LCD touch console window.

2. Remove the USB flash drive from the USB port of the server chassis after unmounting a USB device.

Perform the following procedure to logout the LCD touch console for disconnecting the LCD touch console from the server chassis.

3. Touch **Logout** on the LCD touch console window.

Logout operation is completed.

4. Disconnect the USB cable, which connect the LCD touch console, from the USB port of the server chassis.

Note: If you remove the USB flash drive without unmounting operation, the data may be inaccessible or damaged while in transit to/from the USB flash drive.

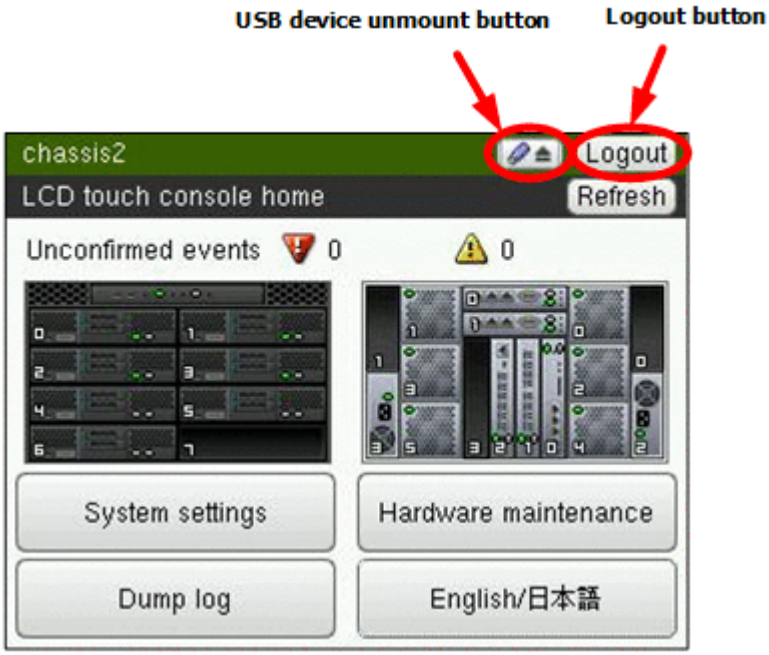

Figure 1-3 LCD touch console window

Storing of LCD touch console

A slide case which stores an LCD touch console is equipped in a server chassis. Pull out the slide case from the server chassis, each stores the LCD touch console and a USB cable separately. The USB cable is wound around the guide of the case so as not to overflow from the slide case.

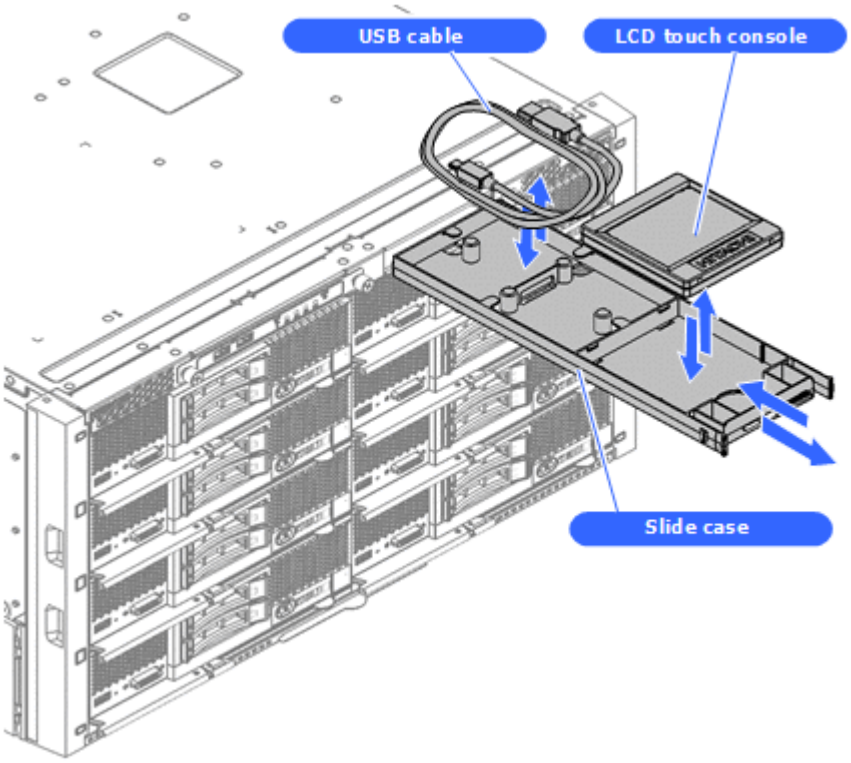

Figure 1-4 Storing of LCD touch console

Note: Do not store any items other than the LCD touch console and USB cable in the slide case.

Function list

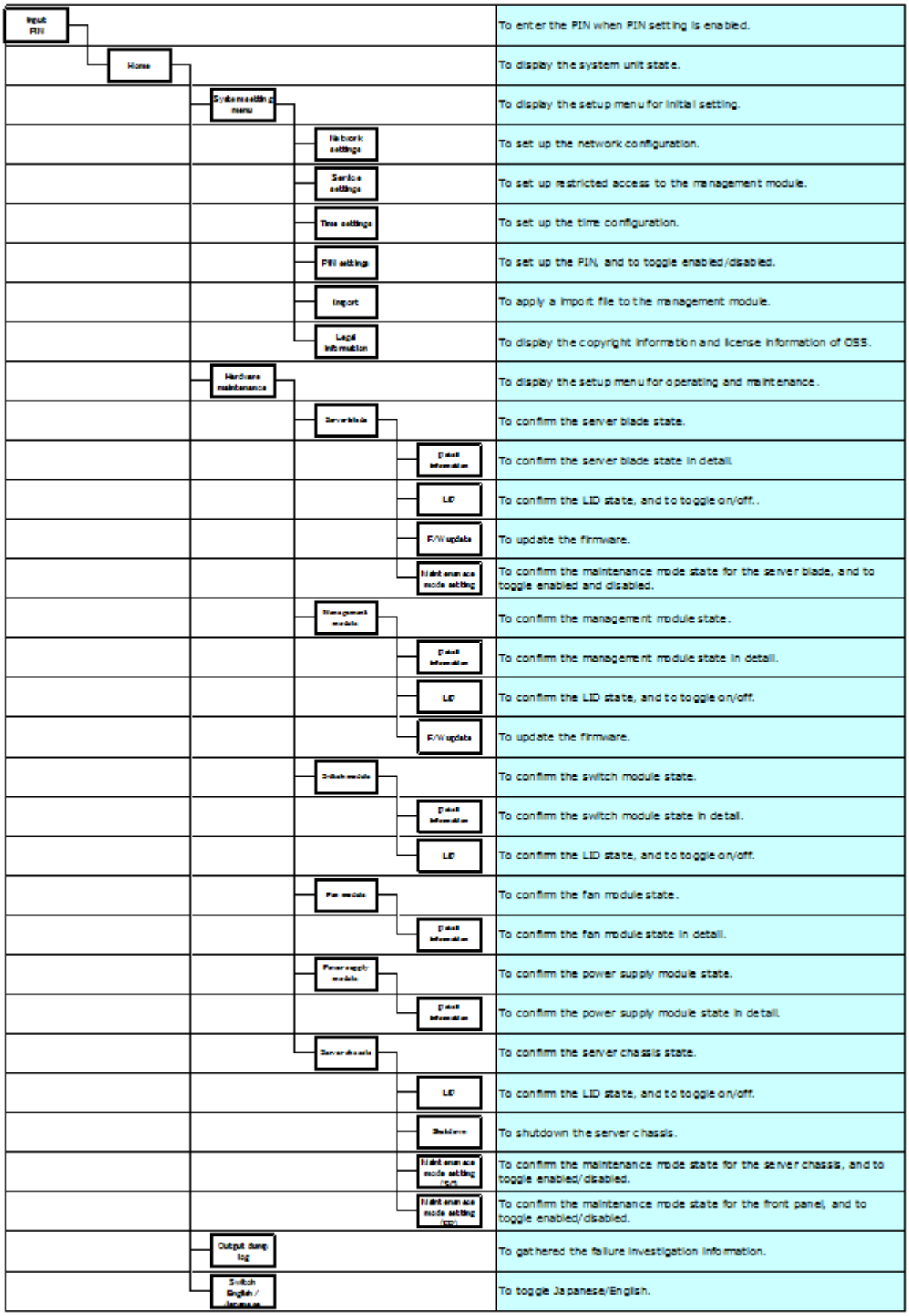

Figure 1-5 Function list

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Functional detail

This chapter describes function of the LCD touch console in detail.

- Home
- System settings
- Hardware maintenance
- Output dump log
- Switch English/Japanese

Home

The following Home window will appear once the LCD touch console is successfully connected to the Server chassis.

Figure 2-1 Home window

Tip: If PIN setting is enabled, the window requests the PIN. Once the PIN is accepted, the Home window will appear. See PIN settings on page 2-6 for details.

Unconfirmed events

The following icons indicate that failures or warnings occur in the system unit.

Table 2-1 Unconfirmed events

Icons	Descriptions
 Warning	One or more modules is/are in a warning state. For details of warning, check the content in the web console.
 Failure	One or more modules is/are in a failure state. For details of warning, check the content in the web console.

Operation status of system unit

The following icons indicate the active status for each installed modules.

Table 2-2 Operation status

Icons	Descriptions
None	A module is running properly.
?	A module installed in the location is initializing.
	A module installed in the location is in a warning state.
	A module installed in the location is in a failure state.
	A module installed in the location is set in maintenance mode.

System settings

Operation: Home > **System settings**

The **System settings** window is the setup menu for initial settings.

In the **System settings** window, you can move to each setup windows to set initial settings.

1. Touch **Home** > **System settings**, and then the **System settings** window is displayed.

Network settings

Operation: Home > **System settings** > **Network settings**

In the **Network settings** window, you can set up IP address, subnet mask, and default gateway of the management module which is connected to the management LAN.

1. Touch **Home** > **System settings** > **Network settings**, and then the **Network settings** window is displayed.

Table 2-3 Network settings

Items	Descriptions
IP address	Displays the IP address of the management module.
Subnet mask	Displays the subnet mask of the management module.
Default gateway	Displays the default gateway of the management module.

Tip: Only IPv4 addresses can be set up from the LCD touch console. To set up IPv6 addresses, use the Web console or the CLI console.

Service settings

Operation: Home > **System settings** > **Service settings**

In the **Service settings** window, you can select enable/disable the connection, such as Telnet, SSH/SFTP, HTTP, and HTTPS. You can also set up restricted access to the management module by IP address. You can select enable/disable HCSM function.

1. Touch **Home** > **System settings** > **Service settings**, and then the **Service settings** window is displayed.

Table 2-4 Service settings

Items		Descriptions
Telnet	Service status	To select enable/disable for connecting by Telnet.
	Access control	To select enable/disable of IP address access control for connecting by Telnet.
	Connectable network address	To set up the connectable network address by Telnet when the IP address access control is enabled.
	Net mask	To set up the connectable subnet mask by Telnet when the IP address access control is enabled.
FTP	Service status	To select enable/disable for connecting by FTP.
	Access control	To select enable/disable of IP address access control for connecting by FTP.
	Connectable network address	To set up the connectable network address by FTP when the IP address access control is enabled.
	Net mask	To set up the connectable subnet mask by FTP when the IP address access control is enabled.
SSH/SFTP	Service status	To select enable/disable for connecting by SSH/SFTP.
	Access control	To select enable/disable of IP address access control for connecting by SSH/SFTP.
	Connectable network address	To set up the connectable network address by SSH/SFTP when the IP address access control is enabled.
	Net mask	To set up the connectable subnet mask by SSH/SFTP when the IP address access control is enabled.
HTTP	Service status	To select enable/disable for connecting by HTTP.
	Port number	To set up the port number of connecting by HTTP.
	Access control	To select enable/disable of IP address access control for connecting by HTTP.
	Connectable network address	To set up the connectable network address by HTTP when the IP address access control is enabled
	Net mask	To set up the connectable subnet mask by HTTP when the IP address access control is enabled.
HTTPS	Service status	To select enable/disable for connecting by HTTPS.

Items		Descriptions
	Port number	To set up the port number of connecting by HTTPS.
	Access control	To select enable/disable of IP address access control for connecting by HTTPS.
	Connectable network address	To set up the connectable network address by HTTPS when the IP address access control is enabled
	Net mask	To set up the connectable subnet mask by HTTPS when the IP address access control is enabled.
HCSM	HCSM	To select enable/disable for HCSM function.

Tip: The only service settings that can be configured from the LCD touch console are those for services that connect via IPv4 addresses in the management network of the management modules. To configure the service settings for services that connect via IPv6 addresses, use the Web console or the CLI console.

Time settings

Operation: Home > System settings > Time settings

In the **Time settings** window, you can set up the local time settings, the time zone settings, and the daylight saving time (DST) settings. The BMC time settings and management module time settings correspond by NTP in the default settings. This setup can be configured the time settings of BMC and management module when introducing a system.

1. Touch **Home** > **System settings** > **Time settings** and then the **Time settings** window is displayed.

Table 2-5 Time settings

Items		Descriptions
Current time		Displays current local time, which is set up the time zone. Also displays that the DST or the standard time.
Time zone		Displays the time zone settings.
DST settings		Displays that the DST settings is enabled/disabled.
Start time of DST	Month	Daylight saving time start/end The following descriptions show about the start/end time of DST. For the "Month" and "Time", the specified "Month" and "Time" are the date of start/end time of DST. • Date specification: Displays that the specified "Month" and "Date" of start/end time of DST. In this case, "Day" setting is disabled. • First day after date: Start/end time of DST is the first day after the specified "Date".
	Rule	
	Date	
	Day	
	Time	
End time of DST	Month	
	Rule	
	Date	

Items		Descriptions
	Day Time	For example, specify "Sunday" as "Day", and "8" as "Date". The date is the first Sunday after the 8th of the month. In other word, the day is the second Sunday of the month. • Last day before date: Start/end time of DST is the first day of week before the specified "Date". For example, specify "Sunday" as "Day", and "3" as "Month", and "24" as "Date". The date is the first Sunday before the 24th of May. In other word, the day is the last Sunday but one in May. • Last day in the month: Start/end time of DST is the first day of week before the specified "Date". For example, specify "Sunday" as "Day", and "3" as "Month", and "24" as "Date". The date is the first Sunday before the 24th of May. In other word, the day is the last Sunday but one in May. In this case, "Date" setting is disabled.

PIN settings

Operation: Home > System settings > PIN settings

You can select enable/disable the PIN authentication for the LCD touch console operation. You can also set up the PIN when the PIN authentication is enabled. If you have forgotten your PIN, the administrator can reset the PIN through the web console.

In the **PIN settings** window, you can select enable/disable for the PIN authentication function. You can also set up the PIN in the **PIN settings** window.

1. Touch **Home** > **System settings** > **PIN settings**, and then the **PIN settings** window is displayed.

Table 2-6 PIN settings

Items	Descriptions
PIN settings	To select enable/disable for the PIN settings function.
New PIN	To set up the new PIN when the PIN settings function is enabled. The PIN is four-digit numeric codes.
New PIN (Confirmation)	Enter the new PIN again to confirm when setting up the new PIN. The new PIN settings can not be done, if the inputting PIN is inconsistent with the new PIN.

Tip: You can initialize PIN settings by a Web console.

Import

Operation: Home > **System settings** > **Import**

The setup file, which is made outside in advance, of USB flash drive can import to the management module configuration. By using the setup file, operation time can be shortened at the site.

In the **Import** window, you can set up the management module using the setup file.

1. Touch **Home** > **System settings** > **Import**, and then the **Import** window is displayed.

For details, see *Hitachi Compute Blade 500 Series Management Module Setup Guide*.

Tip:

- When a single directory has over 50 files/directories in the USB device, files/directories are displayed up to 50 in the **Import** window.
- For files or directories in the USB device, characters other than ASCII code (without ASCII extended partition) are not displayed correctly. You should use ASCII codes for imported file name and directory path, which indicates the stored file for import.

Legal information

Operation: Home > **System settings** > **Legal information**

In the **Legal information** window, you can confirm the copyright information and license information of the open source software (OSS), which is used in the LCD touch console.

1. Touch **Home** > **System settings** > **Legal information**, and then the **Legal information** window is displayed.

Hardware maintenance

Operation: Home > **Hardware maintenance**

In the **Hardware maintenance** window, you can move to each setup windows to set settings for operation and maintenance.

1. Touch **Home** > **Hardware maintenance**, and then the **Hardware maintenance** window is displayed.

Server blade

Operation: Home > **Hardware maintenance** > **Server blade**

You can confirm the operation status of server blade, hardware information, and sensor information without LAN connection.

In the **Server blade** window, you can confirm the current status summary of server blade and the detail of each server blade. You can also move to each setup windows, such as LID operation, firmware update, and maintenance mode setup.

1. Touch **Home** > **Hardware maintenance** > **Server blade**, and then the **Server blade** window is displayed.

Table 2-7 Server blade

Items	Descriptions
#	Displays the server blade number.
Install	Displays the status of installed server blade. Installed : Server blade installed Not installed: No server blade installed. In SMP configuration, (P) or (NP) is added to Installed or Not installed to indicate Primary or Not as follows. (P): Primary server blade (NP): Non-primary server blade
Power	Displays the power status of server blade. ON: Power-on (including during Smart Configure) Powering ON: Progress of power-on OFF: Power-off (including the sleep status) Powering OFF: Progress of power-off -----: Indicates that there is no information that should be displayed. For example, when no server blade is installed, or when the server blade is a non-primary server blade.
Status	Displays a status of server blade operation. Normal: Normal operation Warning: Warning status Fail: Failure status -----: Indicates that there is no information that should be displayed. For example, when no server blade is installed, or when the server blade is a non-primary server blade.
LID	Displays LID power-on/off status. ON: Power-on LID OFF: Power-off LID -----: Indicates that there is no information that should be displayed. For example, when no server blade is installed, or when the server blade is a non-primary server blade.
Maintenance	Value: Maintenance mode is enabled. Value shows the time period, which is in minutes, until automatic cancellation. OFF: Maintenance mode is disabled.

Server blade detail information

Operation: Home > Hardware maintenance > Server blade > Detail information

In the Detail information window, you can confirm the detail information of server blade.

1. Touch **Home** > **Hardware maintenance** > **Server blade** > *target server blade* > **Detail information**, and then the **Detail information** window will be displayed.

Table 2-8 Server blade detail information

Items	Descriptions
Install	Displays the status of installed server blade. Installed : Server blade installed Not installed: No server blade installed. In SMP configuration, (P) or (NP) is added to Installed or Not installed to indicate Primary or Not as follows. (P): Primary server blade (NP): Non-primary server blade
Power	Displays the power status of server blade. ON: Power-on (including during Smart Configure) Powering ON: Progress of power-on OFF: Power-off (including the sleep status) Powering OFF: Progress of power-off -----: Indicates that there is no information that should be displayed. For example, when no server blade is installed, or when the server blade is a non-primary server blade.
Status	Displays a status of server blade operation. Normal: Normal operation Warning: Warning status Fail: Failure status -----: Indicates that there is no information that should be displayed. For example, when no server blade is installed, or when the server blade is a non-primary server blade.
Init status	Displays the initialized status. After the initialization completes successfully, power operation is available.

Items			Descriptions
LID			Displays LID power-on/off status. ON: Power-on LID OFF: Power-off LID -----: Indicates that there is no information that should be displayed. For example, when no server blade is installed, or when the server blade is a non-primary server blade.
Maintenance	Remaining time		Numerics: Shows that maintenance mode is enabled, and displays the time remaining until the maintenance mode is over in minutes. OFF: Shows that maintenance mode is disabled.
	IP address		The IP address for maintenance is displayed when maintenance mode is enabled. While the IP address is displayed, the remote console cannot be connected to the server blade.
Recovery wait			Displays the time period until power-on the server blade while recover time configuration is enabled when power-on the chassis.
Power ON restriction			Displays that power ON restriction is enabled/disabled. Power ON restriction may be set up if N +M cold standby failover is failed.
Logical Partitioning			Displays whether using or not using LPAR manager. Disabled: Not using LPAR manager Enabled: Using LPAR manager
N+M[1]	Status		No Information: Infomation required for N+M cold standby is not collected. In Progress: Information required for N +M cold standby is being collected. Configured: Information required for N +M cold standby is collected. Not Configured: Infomation required for N+M cold standby is not configured.
	Last result		Displays the result of the last collection or setting on N+M cold standby infomation. OK: It was successful. NG: It failed. Don't care: It is not started.
Version	Server blade firmware	Current	Displays the firmware version which is currently operating.

Items			Descriptions
		Next	Displays the firmware version which will operate in the next boot.
	BMC	Current	Displays the BMC version which is currently operating.
		Next	Displays the BMC version which will operate in the next boot.
	EFI	Current	Displays the EFI version which is currently operating.
		Next	Displays the EFI version which will operate in the next boot.
LP	LP model		Displays the LPAR manager license type.
	LP version	Current	Displays the LPAR manager version which is currently operating.
		Next	Displays the LPAR manager version which will operate in the next boot.
UUID			Displays UUID.
BMC MAC address0			Displays the BMC MAC address of the server blade port which is connected to the management module in slot 0.
BMC MAC address1			Displays the BMC MAC address of the server blade port which is connected to the management module in slot 1.
BMC IP address			Displays the IP address set to BMC.
SMP configuration[2]	SMP connection board		Displays the product name of SMP connection board onboard only when a server blade in SMP configuration is selected.
	Primary Server blade No		Displays the Primary server blade number in SMP configuration only when a server blade in SMP configuration is selected
	Server blade list		Displays a list of server blades in SMP configuration only when a server blade in SMP configuration is selected.
FRU	Server blade	Board Information	Displays the Board Information on FRU.
		Product Information	Displays the Product Information on FRU.
Sensor	Blade Temperature		Displays the temperature of the server blade in Celsius.

Notes:

1. Displays the conditions of serber blade on N+M cold standby function.

Items	Descriptions
2. Displays primary server blade or non-primary server blade only when a server blade in SMP configuration is selected.	

Server blade LID

Operation: Home > **Hardware maintenance** > **Server blade** > **LID**.

In the LID window, you can confirm the LID status of server blade. You can also set up LID light on/off.

1. Touch **Home** > **Hardware maintenance** > **Server blade** > *target server blade* > **LID**, and then the **LID** window will be displayed.

Server blade firmware update

Operation: Home > **Hardware maintenance** > **Server blade** > **Updating firmware**

In the Updating firmware window, you can update the firmware of server blade using the firmware of server blade in the USB device.

1. Touch **Home** > **Hardware maintenance** > **Server blade** > *target server blade* > **Updating firmware**, and then the **Updating firmware** window will be displayed.

In SMP configuration, select the Primary server blade as a target server blade.

Tip: The firmware of server blade must be stored in the USB device, which connect to the USB port of the front panel in server chassis.
In SMP configuration, firmware update is applied to all server blades in the configuration.

Server blade maintenance mode settings

Operation: Home > **Hardware maintenance** > **Server blade** > **Maintenance mode settings**

In the **Maintenance mode settings** window, you can confirm the maintenance mode status and the remaining time of maintenance mode. You can also set up the maintenance mode.

1. **Home** > **Hardware maintenance** > **Server blade** > *target server blade* > **Maintenance mode settings**, and then the **Maintenance mode settings** window will be displayed.

Switch module

Operation: Home > **Hardware maintenance** > **Switch module**

You can confirm the operation status of switch module, hardware information, and sensor information without LAN connection.

In the **Switch module** window, you can confirm the current status summary of switch module and the detail information of each switch module. You can also move the maintenance mode.

1. Touch **Home** > **Hardware maintenance** > **Switch module**, and then the **Switch module** window is displayed.

Table 2-9 Switch module

Items	Descriptions
#	Displays the module number.
Install	Displays the status of installed module. Installed : Module installed Not installed: No module installed.
Power	Displays power status of module. ON: Power-on OFF: Power-off (including sleep status) ---: No module installed.
Status	Displays a status of module operation. Normal: Normal operation Warning: Warning status Fail: Failure status ---: No module installed.
LID	Displays LID power-on/off status. ON: Power-on LID OFF: Power-off LID ---: No module installed.
Maintenance	Value: Maintenance mode is enabled. Value shows the time period, which is in minutes, until automatic cancellation. OFF: Maintenance mode is disabled.
Type	Displays the following various switches. 1G LANSW: Hitachi 1 Gb/sec LAN switch module (20 ports) 1G 40LAN-SW: Hitachi 1 Gb/sec LAN switch module (40 ports) 1/10G LAN-SW: Hitachi 1/10 Gb/sec LAN switch module 8G FC-SW: Brocade 8 Gb/sec Fibre Channel Switch Module 16G FC-SW: Brocade 16 Gb/sec Fibre Channel Switch Module 10G DCB-SW: Brocade 10 Gb/sec DCB Switch Module 1G LAN-PT: 1 Gb/sec LAN Pass-through Module 10G LAN-PT: 10 Gb/sec LAN Pass-through Module ---: No module installed.

Switch module detail information

Operation: Home > **Hardware maintenance** > **Switch module** > **Detail information**

In the **Detail information** window, you can confirm the detail information of switch module.

1. Touch **Home** > **Hardware maintenance** > **Switch module** > target switch module > **Detail information**, and then the **Detail information** window will be displayed.

Table 2-10 Switch module detail information

Items	Descriptions	
Install	Displays the status of installed module. Installed : Module installed Not installed: No module installed.	
Power	Displays power status of module. ON: Power-on OFF: Power-off (including sleep status) ---: No module installed.	
Status	Displays a status of module operation. Normal: Normal operation Warning: Warning status Fail: Failure status ---: No module installed.	
LID	Displays LID power-on/off status. ON: Power-on LID OFF: Power-off LID ---: No module installed.	
Maintenance	Value: Maintenance mode is enabled. Value shows the time period, which is in minutes, until automatic cancellation. OFF: Maintenance mode is disabled.	
Type	Displays the following various switches. 1G LANSW: Hitachi 1 Gb/sec LAN switch module (20 ports) 1G 40LAN-SW: Hitachi 1 Gb/sec LAN switch module (40 ports) 1/10G LAN-SW: Hitachi 1/10 Gb/sec LAN switch module 8G FC-SW: Brocade 8 Gb/sec Fibre Channel Switch Module 16G FC-SW: Brocade 16 Gb/sec Fibre Channel Switch Module 10G DCB-SW: Brocade 10 Gb/sec DCB Switch Module 1G LAN-PT: 1 Gb/sec LAN Pass-through Module 10G LAN-PT: 10 Gb/sec LAN Pass-through Module ---: No module installed.	
Version	Firmware	Displays the firmware version in the module. Some version may not be displayed.
FRU	Original	Displays the Original FRU.
Sensor	Temperature	Displays the temperature.
	Voltage	Displays the s volt.

Items	Descriptions	
	Current	Displays the ampere.

Switch module LID

Operation: Home > **Hardware maintenance** > **Switch module** > **LID**

In the **LID** window, you can confirm the LID status of switch module. You can also set up LID light on/off.

1. Touch **Home** > **Hardware maintenance** > **Switch module**> target switch module > **LID**, and then the **LID** window will be displayed.

Management module

Operation: Home > **Hardware maintenance** > **Management module**

You can confirm the operation status of management module, hardware information, and sensor information.

In the **Management module** window, you can confirm the current status summary of management module and the detail information of management module. You can also move to each setup windows, such as LID operation and firmware update.

1. Touch **Home** > **Hardware maintenance** > **Management module**, and then the **Management module** window is displayed.

Table 2-11 Management module

Items	Descriptions
#	Displays the module number.
Install	Displays the status of installed module. Installed : Module installed Not installed: No module installed
Power	Displays power status of module. ON: Power-on OFF: Power-off (including sleep status) ---: No module installed
Status	Displays a status of module operation. Normal : Normal operation Warning : Warning status Fail: Failure status Booting: Booting status Shutting down: Shutting down status Boot disable: Booting is disabled due to ---: No module installed

Items	Descriptions
LID	Displays LID power-on/off status. ON: Power-on LID OFF: Power-off LID ---: No module installed
Maintenance	Numeric value: Maintenance mode is enabled. Numeric value shows the time period, which is in minutes, until automatic cancellation. OFF: Maintenance mode disabled.
Hot standby status	Displays that the module is main/standby. Active : Active module Standby: Standby module ---: No module installed

Management module detail information

Operation: Home > **Hardware maintenance** > **Management module** > **Detail information**

In the **Detail information** window, you can confirm the detail information of management module.

1. Touch **Home** > **Hardware maintenance** > **Management module** > *target management module* > **Detail information**, and then the **Detail** information window will be displayed.

Table 2-12 Management module detail information

Items	Descriptions
Install	Displays the status of installed module. Installed : Module installed Not installed: No module installed
Power	Displays power status of module. ON: Power-on OFF: Power-off (including sleep status) ---: No module installed
Status	Displays a status of module operation. Normal : Normal operation Warning : Warning status Fail: Failure status Booting: Booting status Shutting down: Shutting down status Boot disable: Booting is disabled due to ---: No module installed
LID	Displays LID power-on/off status.

Items	Descriptions	
	ON: Power-on LID OFF: Power-off LID ---: No module installed	
Maintenance	Numeric value: Maintenance mode is enabled. Numeric value shows the time period, which is in minutes, until automatic cancellation. OFF: Maintenance mode disabled.	
Hot standby status	Displays that the module is main/standby. Active : Active module Standby: Standby module ---: No module installed	
Version	Firmware	Displays the firmware version in the management module. Some version may not be displayed.
	Dictionary	Displays the installed dictionary version.
	Equipment parameter	Displays the installed equipment parameter.
FRU	Board Information	Displays the Board Information FRU.
	Product Information	Displays the Product Information FRU.
	Multi Record Area	Displays the Multi Record Area FRU.
MAC Address	Management LAN port	Displays the MAC address of management LAN port.
	Maintenance LAN port	Displays the MAC address of maintenance LAN port.
Management LAN settings	IP Address	Displays the IP address of management LAN.
	Subnet mask	Displays the subnet mask of management LAN.
	Default Gateway	Displays the default gateway of management LAN.
Sensor	Temperature	Displays the temperature.
	Voltage	Displays the volt.

Management module LID

Operation: Home > **Hardware maintenance** > **Management module** > **LID**

In the **LID** window, you can confirm the LID status of management module. You can also set up LID light on/off.

1. Touch **Home** > **Hardware maintenance** > **Management module** > *target management module* > **LID**, and then the **LID** window will be displayed.

Management module firmware update

Operation: Home > **Hardware maintenance** > **Management module** > **F/W update**

In the **F/W update** window, you can update the firmware of management module from a USB flash drive, which is stored the firmware of management module, the SEL dictionary, and the instrument parameter.

1. Touch **Home** > **Hardware maintenance** > **Management module** > **Updating firmware**, and then touch **Operation**. The **Updating firmware** window will be displayed.

Tip:

- You can update the firmware of the management module, the SEL dictionary, and the instrument parameter individually or in bulk.
- When mounting the backup management module, both of management modules are updated automatically even if only one of these management modules is updated.

Fan module

Operation: Home > **Hardware maintenance** > **Fan module**

You can confirm the operation status of fan module, hardware information, and sensor information.

In the **Fan module** window, you can confirm the current status summary of fan module and the detail information of fan module.

1. Touch **Home** > **Hardware maintenance** > **Fan module**, and then the **Fan module** window is displayed.

Table 2-13 Fan module

Items	Descriptions
#	Displays the module number.
Install	Displays the status of installed module. Installed : Module installed Not installed: No module installed
Power	Displays power status of module. ON: Power-on OFF: Power-off (including sleep status) ---: No module installed
Status	Displays a status of module operation. Normal : Normal operation Warning : Warning status Fail: Failure status ---: No module installed

Fan module detail information

Operation: Home > **Hardware maintenance** > **Fan module** > **Detail information**

In the Detail information window, you can confirm the detail information of fan module.

1. Touch **Home** > **Hardware maintenance** > **Fan module** > *target fan module* > **Detail information**, and then the **Detail information** window will be displayed.

Table 2-14 Fan module information

Items	Descriptions	
Install	Displays the status of installed module. Installed : Module installed Not installed: No module installed	
Power	Displays power status of module. ON: Power-on OFF: Power-off (including sleep status) ---: No module installed	
Status	Displays a status of module operation. Normal: Normal operation Warning: Warning status Fail: Failure status ---: No module installed	
Sensor	Rotation	Displays the speed.

Power supply module

Operation: Home > **Hardware maintenance** > **Power supply module**

You can confirm the operation status of power supply module, hardware information, and sensor information.

In the Power supply module window, you can confirm the current status summary of power supply module and the detail information of each power supply module. You can also move to each setup windows, such as LID operation, firmware update, and maintenance mode setup.

1. Touch **Home** > **Hardware maintenance** > **Power supply module**, and then the **Power supply module** window is displayed.

Table 2-15 Power supply module

Items	Descriptions
#	Displays the module number.

Items	Descriptions
Install	Displays the status of installed module. Installed : Module installed Not installed: No module installed
Power	Displays power status of module. ON: Power-on OFF: Power-off (including sleep status) ---: No module installed
Status	Displays a status of module operation. Normal: Normal operation Warning: Warning status Fail: Failure status ---: No module installed
AC input	Displays the AC power status. Connected: Power-on Not connected: Power-off

Power supply module details

Operation: Home > **Hardware maintenance** > **Power supply module** > **Detail information**

In the **Detail information** window, you can confirm the detail information of power supply module.

1. Touch **Home** > **Hardware maintenance** > **Power supply module** > *target power supply module* > **Detail information**, and then the **Detail information** window will be displayed.

Table 2-16 Power supply module details

Items	Descriptions
Install	Displays the status of installed module. Installed : Module installed Not installed: No module installed
Power	Displays power status of module. ON: Power-on OFF: Power-off (including sleep status) ---: No module installed
Status	Displays a status of module operation. Normal: Normal operation Warning: Warning status Fail: Failure status ---: No module installed

Items	Descriptions	
AC input	Displays the AC power status. Connected: Power-on Not connected: Power-off	
Voltage	When the AC power status is power-on, displays that the AC voltage is 100V/ 200V automatically.	
FRU	Product Information	Displays the Product Information FRU.
Sensor	Temperature	Displays the temperature.
	Volt	Displays the volt.
	Ampere	Displays the ampere.
	RPM	Displays the speed.

Server chassis

Operation: Home > **Hardware maintenance** > **Server chassis**

You can confirm the operation status of server chassis and front panel, hardware information, and sensor information.

In the **Server chassis** window, you can confirm the current status summary of server chassis. You can also move to each setup windows, such as LID operation, maintenance mode setup, and maintenance mode of the front panel setup.

1. Touch **Home** > **Hardware maintenance** > **Server chassis**, and then the **Server chassis** window is displayed.

Table 2-17 Server chassis

Items		Descriptions
Server chassis	Power	Displays power status of module. ON: one of server blade power-on OFF: all server blade power-off
	Status	Displays a status of module operation. Normal: normal operation Warning: warning status Fail: failure status
	LID	Displays LID power-on/off status. ON: power-on LID OFF: power-off LID
	Maintenance	Numeric value: maintenance mode is enabled. Numeric value shows the time period, which is in minutes, until automatic cancellation. OFF: maintenance mode is disabled.

Items		Descriptions		
	LID	Displays LID power-on/off status. ON: power-on LID OFF: power-off LID ---: module is not installed.		
	Part/Model Number	Displays the Part/Model Number.		
	Serial Number	Displays the Serial Number.		
	Chassis type	Displays the Chassis type.		
	Total weight	Displays the gross mass (kg) of system unit including modules.		
	Chassis ID	Displays the chassis ID. The chassis ID is used to identify the system unit.		
Front panel	Maintenance	Numeric value: maintenance mode is enabled. Numeric value shows the time period, which is in minutes, until automatic cancellation. OFF: maintenance mode is disabled.		
	USB devices	USB port 0	Status	Displays the connection/ installed status of the USB device.
			USB version	Displays the USB version (1.1/2.0).
			Device type	Displays the USB kind when connecting the USB device.
		USB port 1	Status	Displays the connection/ installed status of the USB device.
			USB version	Displays the USB version (1.1/2.0).
			Device type	Displays the USB kind when connecting the USB device.

Server chassis LID

Operation: Home > **Hardware maintenance** > **Server chassis** > **LID**

In the **LID** window, you can confirm the LID status of server chassis. You can also set up LID light on/off.

1. Touch **Home** > **Hardware maintenance** > **Server chassis** > **LID**, the **LID** window will be displayed.

Server chassis shutdown

Operation: Home > **Hardware maintenance** > **Server chassis** > **Chassis shutdown**

1. Touch **Home** > **Hardware maintenance** > **Server chassis** > **Chassis shutdown**, the **Server chassis shutdown** window will be displayed.

Server chassis maintenance mode settings

Operation: Home > **Hardware maintenance** > **Server chassis** > **Maintenance mode settings**

You can confirm the maintenance mode status, and you can select enable/disable.

In the **Maintenance mode settings** window, you can confirm the maintenance mode status and the remaining time of maintenance mode. You can also set up the maintenance mode.

1. Touch **Home** > **Hardware maintenance** > **Server chassis** > **Maintenance mode settings**, and then the **Maintenance mode settings** window will be displayed.

Front panel maintenance mode settings

Operation: Home > **Hardware maintenance** > **Server chassis** > **Front panel maintenance mode settings**

You can confirm the maintenance mode status of server chassis front panel, and you can select enable/disable in this window.

In the **Front panel maintenance mode** settings window, you can confirm the maintenance mode status of the front panel and the remaining time of maintenance mode of the front panel. You can also set up the maintenance mode of the front panel.

1. Touch **Home** > **Hardware maintenance** > **Server chassis** > **Front panel maintenance mode settings**, and then the **Front panel maintenance mode settings** window will be displayed.

Output dump log

Operation: Home > **Output dump log**

The information required for failure investigation (operation status of the system unit, hardware information, hardware configuration, SEL, and MAR log) can be gathered and compressed one file for in a lump in this window. Maximum capacity: 30 MB.

In the **Output dump log** window, you can save the dump log in the USB flash drive, which connect to the USB port of the front panel in server chassis.

1. Touch **Home** > **Output dump log**, and then the **Output dump log** window is displayed.

Switch English/Japanese

Operation: Home > **English/Japanese**

Touch **Home** > **English/Japanese** to switch the using language in the LCD touch console. You can switch two languages, Japanese and English.

Tip: The LCD touch console is displayed in the selected language depend on the language setup in the server chassis when connect the LCD touch console to the USB port of the front panel in server chassis. This function effect only display language in the LCD touch console.

3

Software license information

This chapter describes software license information of LCD touch console.

Software license information

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