

FUJITSU Software Systemwalker Software Configuration Manager

Operator's Guide

Windows/Linux

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Preface

Purpose of this Document

This document explains patch management procedures as well as how to manage software configuration information and software parameters from the management console in Systemwalker Software Configuration Manager V15.2.0.

Intended Readers

This document is intended for those who want to understand how to operate the management console in Systemwalker Software Configuration Manager.

It is assumed that readers of this document already have the following knowledge:

- Basic knowledge of the operating system being used

Structure of this Document

The structure of this document is as follows:

[Chapter 1 Management Console](#)

This chapter provides an overview of functions of the management console in Systemwalker Software Configuration Manager.

[Chapter 2 Configuration Management](#)

This chapter explains how to manage software configuration information from the management console.

[Chapter 3 Patch Management](#)

This chapter explains how to manage patch files from the management console.

[Chapter 4 Task Management](#)

This chapter explains how to manage tasks from the management console.

Conventions Used in this Document

Refer to the *Documentation Road Map* for information on the names, abbreviations, and symbols used in this manual.

Abbreviations and Generic Terms Used for Operating Systems

This document uses the following abbreviations and generic terms to indicate operating systems.

Official name	Abbreviation	
Microsoft(R) Windows Server(R) 2012 Datacenter Microsoft(R) Windows Server(R) 2012 Standard	Windows Server 2012	Windows
Microsoft(R) Windows Server(R) 2012 R2 Datacenter Microsoft(R) Windows Server(R) 2012 R2 Standard	Windows Server 2012 R2	
Microsoft(R) Windows Server(R) 2008 Standard Microsoft(R) Windows Server(R) 2008 Standard without Hyper-V Microsoft(R) Windows Server(R) 2008 Enterprise Microsoft(R) Windows Server(R) 2008 Enterprise without Hyper-V	Windows Server 2008	
Microsoft(R) Windows Server(R) 2008 R2 Standard Microsoft(R) Windows Server(R) 2008 R2 Enterprise	Windows Server 2008 R2	
Microsoft(R) Windows Server(R) 2003 R2, Standard Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise Edition	Windows Server 2003 R2	

Official name	Abbreviation	
Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition		
Red Hat(R) Enterprise Linux(R) (for x86)	RHEL (x86)	RHEL
Red Hat(R) Enterprise Linux(R) (for Intel 64)	RHEL (Intel 64)	

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Chapter 1 Management Console

Systemwalker Software Configuration Manager provides a management console as a GUI for managing the software configuration information, patches and software parameters for managed servers.

1.1 Overview of the Management Console

The management console can be used to perform the following operations:

- Software configuration information management

Collect and manage software configuration information (server names, tenant names, host names, IP addresses, installation software, and software parameters) on the managed servers. Software parameters can also be configured and scripts can be run.

If an error occurs on a server, compare its current configuration baseline with the configuration baseline when the server was last running correctly and check any patches that have been newly applied in the interim.

The configuration items in the CMDB can also be looked up, updated, deleted and registered.

- Patch management

Patch management involves managing the following patch information:

- Windows patches
- Linux patches
- Fujitsu middleware patches

The patch application status can also be collected from repository servers or managed servers and managed, and unapplied patches can be applied or distributed to managed servers.

- Software parameter management

Parameters configured in the software listed below can be collected to change parameters:

- Fujitsu middleware
- Software that is not supported by UpdateAdvisor (middleware)

- Task management

Manage tasks such as distributing and applying patches, configuring parameters and running scripts.

Setting up the web browser

Before using the management console, a web browser must be set up as follows:

- Configure settings to accept cookies.
- Enable JavaScript.
- Configure settings to use SSL 3.0 and TLS 1.0.
- Depending on the security level of the browser, the management console may not be displayed even after login. In this case, register the URL of the management console in **Trusted sites**.
- To start the management console from the **Start** menu on Windows Server 2012 or later:

In Internet Explorer, select **Tools >> Internet options**, click the **Programs** tab, and then set **Choose how you open links** to **Always in Internet Explorer on the desktop**.

To start the management console without changing the Internet Explorer setting, start the desktop version of Internet Explorer and specify the URL of the management console for Systemwalker Software Configuration Manager.

1.2 Flow of Operations

Systemwalker Software Configuration Manager uses the steps listed below to manage patches, parameters and configurations for servers.

1. Download patches

This step involves downloading patches for the operating system and Fujitsu middleware from the vendor's website and the UpdateSite respectively.

Patches for Windows operating systems are downloaded using Microsoft Windows Server Update Services (WSUS).

Patches for Linux operating systems are downloaded and registered with Yellowdog Updater Modified (yum) repository servers by the infrastructure administrator.

Patches for Fujitsu middleware are downloaded and registered with Systemwalker Software Configuration Manager by the infrastructure administrator.

2. Distribute and apply patches

Distribute and apply patches to managed servers based on an instruction from the tenant user.

Patches for Windows operating systems are distributed and applied by linking to Microsoft Windows Server Update Services (WSUS) based on a Systemwalker Software Configuration Manager operation.

Patches for Linux operating systems are distributed and applied by linking to Yellowdog Updater Modified (yum) based on a Systemwalker Software Configuration Manager operation.

Systemwalker Software Configuration Manager can also be used to distribute patches for Fujitsu middleware and apply these patches by registering scripts.

3. Configure software parameters and run scripts

Configure parameters for the software on the managed servers based on instructions from the tenant user. Scripts can also be run on managed servers.

The infrastructure administrator defines, in advance, those parameters that can be configured in the software.

4. Perform discovery

Periodically and automatically collect managed server patch application statuses, software parameter setting values, and software configuration information from linkage servers, managed servers or ServerView Resource Orchestrator, and store this information in the Configuration Management Database (CMDB).

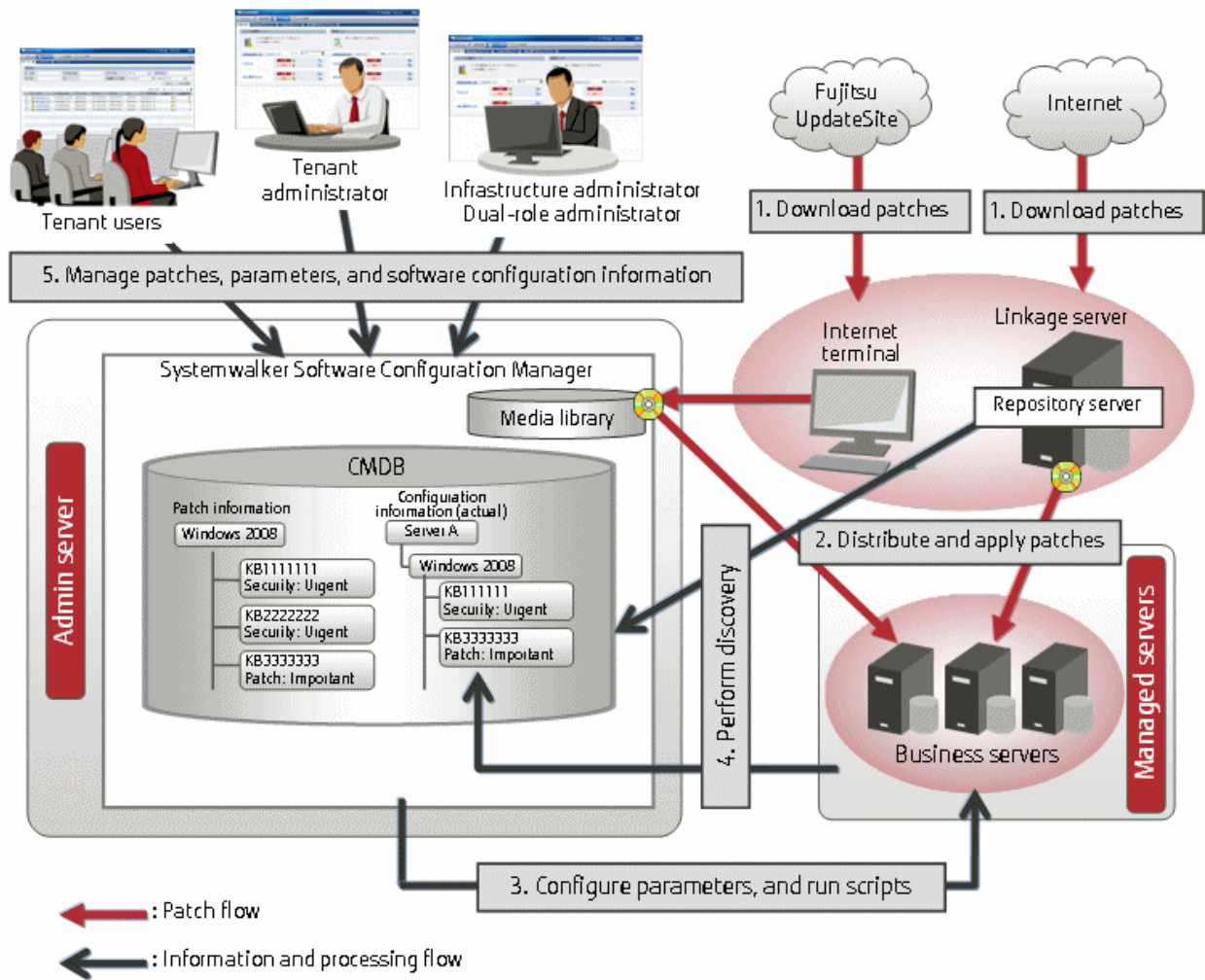
5. Manage patches, parameters and software configuration information

Check the application status of patches discovered on the linkage server and managed servers, as well as the software parameter setting values.

The infrastructure administrator and dual-role administrator can check the patch application status, software parameter setting values, and software configuration information for all servers in the data center by logging in to the management console for Systemwalker Software Configuration Manager.

Tenant administrators can check information for all the servers relating to their tenants, whereas tenant users can check information for the servers that they manage themselves.

Figure 1.1 Overview of Systemwalker Software Configuration Manager



The user roles for this product

The explanations of this product assume that the roles of the people using this product can be classified as follows:

Infrastructure administrator

- Infrastructure administrators set up and maintain Systemwalker Software Configuration Manager.
- Infrastructure administrators define the managed servers for Systemwalker Software Configuration Manager.
- Infrastructure administrators define policies for managing Windows patches, release the patches obtained from Microsoft Windows Server Update Services (WSUS), and determine classification levels.
- Infrastructure administrators obtain Linux patches and register them with Yellowdog Updater Modified (yum) repository servers.
- Infrastructure administrators obtain patches for Fujitsu middleware and register them with Systemwalker Software Configuration Manager.
- Infrastructure administrators define the parameters to be collected from the software, as well as the parameters to be configured in the software.
- Infrastructure administrators can use the management console to look up the patch application status, software parameter setting values, and software configuration information for all servers in the center.

Dual-role administrator

- Dual-role administrators act as both an infrastructure administrator and a tenant administrator.

Tenant administrator

- Tenant administrators can use the management console to look up patch application status and software configuration information for their tenant's servers.
- Tenant administrators use the management console to configure parameters in software on servers belonging to their tenancy.
- Tenant administrators can use the management console to look up the patch application status, software parameter setting values, and software configuration information on servers belonging to their tenancy.

Tenant user

- Tenant users use the management console to apply patches to the servers that they manage.
- Tenant users use the management console to configure parameters in software on servers they manage themselves.
- Tenant users can use the management console to look up the patch application status, software parameter setting values, and software configuration information on servers they manage themselves.

1.3 List of Functions Available from the Management Console

The following table shows the functions that can be used with the management console, as well as which roles can use each function:

Table 1.1 Functions available from the management console

Function	Window	Information displayed/button	Infrastructure administrator	Dual-role administrator	Tenant administrator	Tenant user	Remarks
Home	Home	Function list	Y	Y	Y	Y	A list of functions is displayed.
		Notifications	Y	Y	Y	Y	Notifications from the system are displayed.
Configuration management	Server list	Server list	Y	Y	Y	Y	Clicking the links for server names displays the server details.
		Patch application button	-	Y (*1)	Y (*1)	Y	The Patch Application wizard is displayed.
		Parameter settings button	-	Y (*1)	Y (*1)	Y	The Parameter Settings wizard is displayed.
		Script execution button	-	Y (*1)	Y (*1)	Y	The Script Execution wizard is displayed.
	Server Details	List of installed software programs	Y	Y	Y	Y	Clicking the links for product names displays the software details.
		List of unapplied OS patches	Y	Y	Y	Y	A list of unapplied OS

Function	Window	Information displayed/button	Infrastructure administrator	Dual-role administrator	Tenant administrator	Tenant user	Remarks
							patches is displayed.
		List of applied OS patches	Y	Y	Y	Y	A list of applied OS patches is displayed.
		List of unapplied Fujitsu middleware patches	Y	Y	Y	Y	A list of unapplied middleware patches is displayed.
		List of applied Fujitsu middleware patches	Y	Y	Y	Y	A list of applied middleware patches is displayed.
		Patch application button	-	Y (*1)	Y (*1)	Y	The Patch Application wizard is displayed.
		Compare configuration baselines button	Y	Y	Y	Y	The Configuration Baseline List window is displayed.
		Download parameters in CSV format button	Y	Y	Y	Y	Parameter information is output in CSV format.
		Parameter details button	Y	Y	Y	Y	The Parameter Details window is displayed for the software.
	Parameter Details	Detailed information about the parameters	Y	Y	Y	Y	Detailed information about the software parameters is displayed.
		Download CSV file button	Y	Y	Y	Y	Parameter information is output in CSV format.
		Download package button	Y	Y	Y	Y	The registered parameter package is downloaded.
		Parameter settings button	-	Y (*1)	Y (*1)	Y	The Parameter Settings

Function	Window	Information displayed/button	Infrastructure administrator	Dual-role administrator	Tenant administrator	Tenant user	Remarks
							wizard is displayed.
	Software list		Y	Y	Y	Y	Clicking the links for product names displays the software details.
	Software Details	Detailed information about the software	Y	Y	Y	Y	Detailed information about the software is displayed.
	Configuration Baseline List	Configuration baseline list	Y	Y	Y	Y	The configuration baseline list is displayed.
		Compare button	Y	Y	Y	Y	The two selected configuration baselines are compared.
	Configuration Baseline Comparison Results		Y	Y	Y	Y	The configuration baseline comparison results are displayed.
	Patch Application wizard		-	Y (*1)	Y (*1)	Y	The Patch Application wizard for applying patches to specified servers is displayed.
	Parameter Settings wizard		-	Y (*1)	Y (*1)	Y	The Parameter Settings wizard is displayed.
	Script Execution wizard		-	Y (*1)	Y (*1)	Y	The Script Execution wizard is displayed.
	Maintenance	View CI	Y	Y	-	-	The configuration information registered in the CMDB can be viewed.

Function	Window	Information displayed/button	Infrastructure administrator	Dual-role administrator	Tenant administrator	Tenant user	Remarks
		Register CI	Y (*1)	Y (*1)	-	-	New configuration information can be registered in the CMDB.
		Update/delete CI	Y (*1)	Y (*1)	-	-	The configuration information registered in the CMDB can be updated or deleted.
		Import CI	Y (*1)	Y (*1)	-	-	Configuration information can be imported in the CMDB.
Patch management	Summary view	Number of servers with unapplied patches	Y	Y	Y	Y	The number of servers with unapplied patches is displayed for each operating system and patch type. The List of Servers with Unapplied Patches window is displayed from the links.
		Number of new patches	Y	Y	Y	Y	The number of new patches is displayed for each operating system and patch type. The window for a list of the latest patches is displayed from the links.
	List of Servers with Unapplied Patches	A list of servers with unapplied patches and a list of unapplied patches for the selected server	Y	Y	Y	Y	Patch details are displayed from the Patch ID links, whereas server details are displayed from

Function	Window	Information displayed/button	Infrastructure administrator	Dual-role administrator	Tenant administrator	Tenant user	Remarks	
							the Server name links.	
		Patch application button	-	Y (*1)	Y (*1)	Y	The Patch Application wizard is displayed.	
	List of New Patches	A list of new patches and a list of servers where the selected patch has not been applied	Y	Y	Y	Y	Patch details are displayed from the Patch ID links, whereas server details are displayed from the Server name links.	
		Patch application button	-	Y (*1)	Y (*1)	Y	The Patch Application wizard is displayed.	
	Patch list	Windows patch list		Y	Y	Y	Y	Patch details are displayed from the Patch ID links.
		Linux patch list		Y	Y	Y	Y	Patch details are displayed from the Patch ID links.
		Fujitsu middleware patch list		Y	Y	Y	Y	Patch details are displayed from the Patch ID links.
		Download CSV file button		Y	Y	Y	Y	A list of patches is output in CSV format.
		Patch application button		-	Y (*1)	Y (*1)	Y	The Patch Application wizard is displayed.
	Patch Details	Detailed information about the selected patch		Y	Y	Y	Y	Detailed information about the patch is displayed.
		List of servers with unapplied patches		Y	Y	Y	Y	The servers where the selected patch has not been applied are displayed.

Function	Window	Information displayed/button	Infrastructure administrator	Dual-role administrator	Tenant administrator	Tenant user	Remarks
		List of servers with applied patches	Y	Y	Y	Y	The servers where the selected patch has been applied are displayed.
		Patch application button	-	Y (*1)	Y (*1)	Y	The Patch Application wizard is displayed.
	Patch Application wizard		-	Y (*1)	Y (*1)	Y	The Patch Application wizard for applying specified patches to servers is displayed.
Task management	Task list	My tasks	Y	Y	Y	Y	A list of tasks is displayed with requests for patch applications, parameter settings and script executions that the login user can currently operate.
		My Completed Tasks	Y	Y	Y	Y	A list of tasks is displayed with completed requests for patch applications, parameter settings and script executions.

Y: Can be used.

-: Cannot be used.

*1: These functions may not be available, depending on the ServerView Resource Orchestrator role that has been assigned to the login user. Refer to "1.4 Login Users" for information on roles.

1.4 Login Users

The users who log in to this product must be registered with the directory service beforehand.

Before linking to ServerView Resource Orchestrator, users must be registered with ServerView Resource Orchestrator. The following table shows the correspondences between the roles for ServerView Resource Orchestrator and the roles for Systemwalker Software Configuration Manager.

If the roles have been customized on ServerView Resource Orchestrator, the basic roles of the copy source that correspond to the roles of this product are shown below. Refer to "Customizing Roles" in the *ServerView Resource Orchestrator Cloud Edition Design Guide* for information on customizing roles.

ServerView Resource Orchestrator		Systemwalker Software Configuration Manager		
Role category	Role or basic role	Role	Patch distribution/ application operation Parameter configuration Script execution	Operations in the Configuration management >> Maintenance window
Infrastructure Administrative Role	Infrastructure administrator	Infrastructure administrator	-	A
	Infrastructure operator		-	S (*1)
	Infrastructure monitor		-	S (*1)
Tenant Management Roles	Tenant administrator	Tenant administrator	A	-
	Tenant operator		-	-
	Tenant monitor		-	-
Tenant Use Roles	Tenant user	Tenant user	A	-
Multiple Roles	Administrator	Dual-role administrator	A	A
	Operator		-	S (*1)

A: All operations can be performed.

S: Some operations can be performed.

-: No operations can be performed.

*1: Only the **View CI** menu can be operated.

Refer to "Restricting Access Using Roles" in the *ServerView Resource Orchestrator Cloud Edition Design Guide* for information on ServerView Resource Orchestrator roles.

Note

Users who have not been registered using the user information management commands, and users who do not satisfy the conditions for users of this product, cannot use the management console. After they log in to the management console, the error "HTTP Status 403" is displayed. Refer to "Managing User Information" in the *Installation Guide* for information on requirements to use this product.

1.5 Login and Logout

This section explains how to log in and log out of the management console.

1.5.1 Login

Use the following methods to open the management console:

Starting the management console from a URL

```
http://<FQDN on the admin server>:31500/managerview/index.html
```

If the port number for accessing the management console was changed when Systemwalker Software Configuration Manager was installed, specify the new port number.

Linking to ServerView Resource Orchestrator

```
https://<Admin server FQDN>:3501/managerview/index.html
```

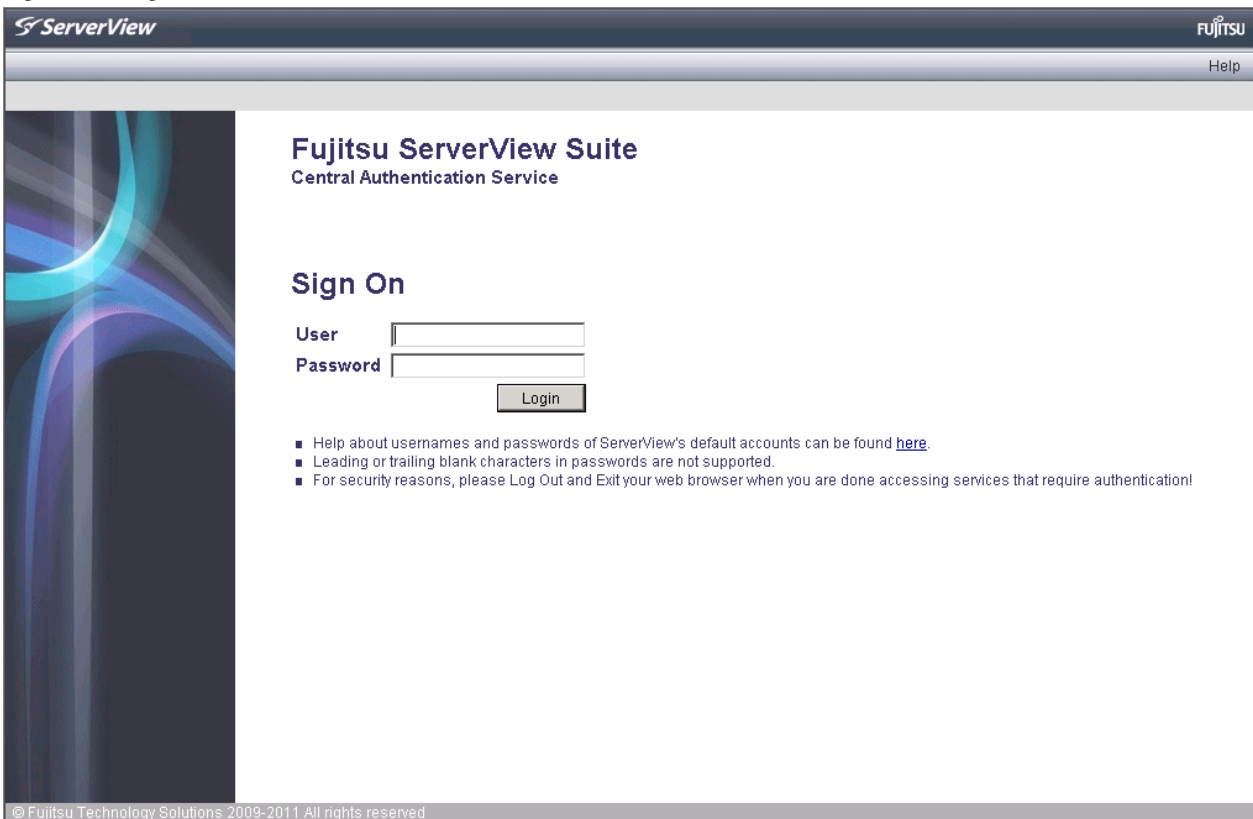
If the port number for the "rcxctext2" service has been changed from 3501 to another port number when ServerView Resource Orchestrator was installed, specify the new port number.

Starting the management console from the Start on the admin server

```
Start >> All programs or All apps >> Systemwalker Software Configuration Manager >> management console
```

When the management console is started, the following login window is displayed:

Figure 1.2 Login window



For the user name and password, log in using an account registered in the directory service.

To link to ServerView Resource Orchestrator, log in using a ServerView Resource Orchestrator account.



Note

If a tenant does not exist, a message is displayed on the management console.

To use the management console, you must create at least one tenant.

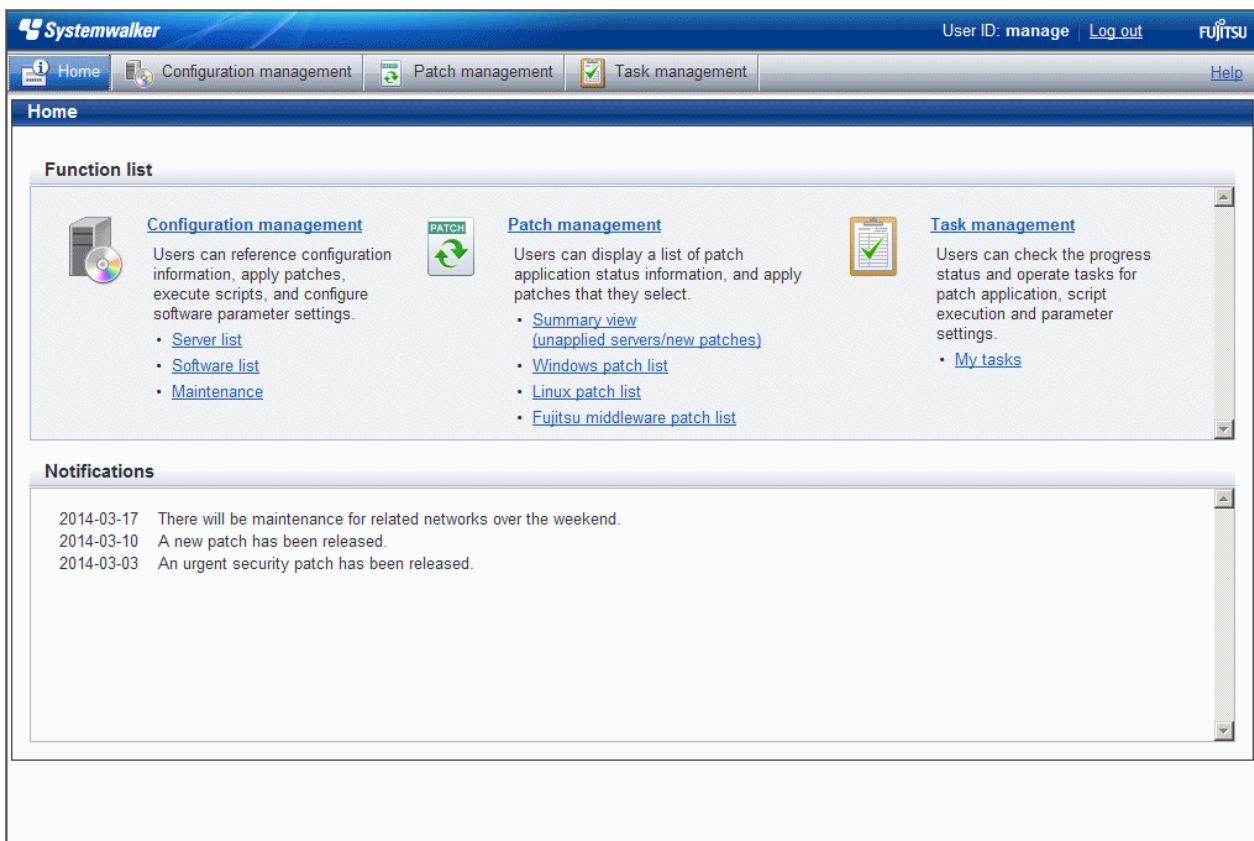
1.5.2 Logout

1. When **Log out** is selected from the top right of the window, a confirmation message will be displayed.
2. Click the **OK** button to log out.
Close the browser after logging out.

1.6 Home

The **Home** window is displayed when the user logs in.

The **Home** window displays the **Function list** and **Notifications** for the management console.



Function list

The **Function list** displays a list of the functions for the management console. When each link is clicked, the corresponding window will be displayed as described below.

Configuration management

- **Server list**

Clicking this link displays a server list window.

- **Software list**

Clicking this link displays a software list window.

- **Maintenance**

Clicking this link displays a window for looking up, registering, updating, deleting and importing configuration items.

Patch management

- **Summary view**

Clicking this link displays a window showing the aggregate results for the number of servers with unapplied patches and the number of new patches for each operating system and patch type.

- **Windows patch list**

Clicking this link displays a Windows patch list window.

- **Linux patch list**

Clicking this link displays a Linux patch list window.

- **Fujitsu middleware patch list**

Clicking this link displays a Fujitsu middleware patch list window.

Task management

- **My tasks**

Clicking this link displays the **Task management** window.

Notifications

The **Notifications** section shows notifications from the system, such as maintenance information.

Refer to the *Operation Guide* for information on how to edit notifications.

Chapter 2 Configuration Management

The **Configuration management** window provides the following functions:

- **Server list**

The servers for which information has been collected by the discovery function can be displayed as a list, detailed information about each individual server can be looked up, including the patch application status for each server, and patches can also be applied. It is also possible to display information that has been filtered by specifying particular conditions.

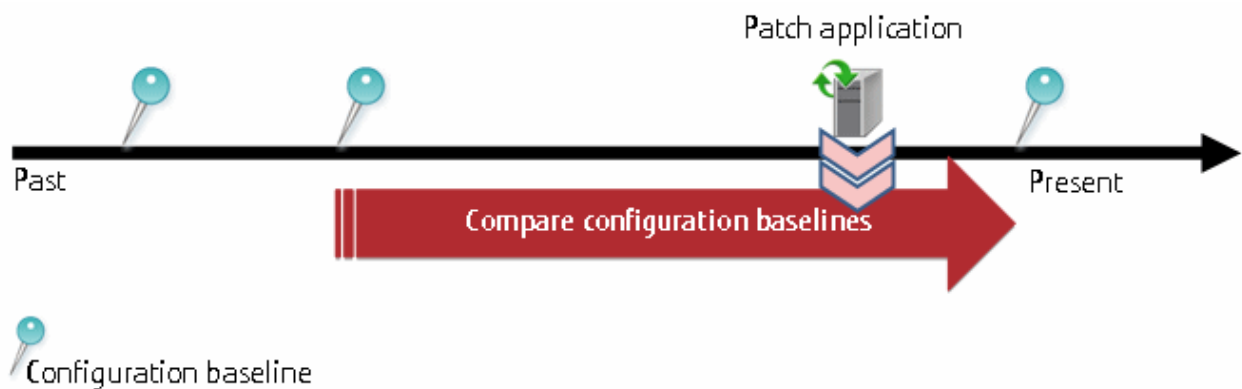
- **Software list**

The Fujitsu middleware products installed on the servers for which information has been collected using the discovery function can be displayed as a list, and detailed information about each individual server can be looked up, including the patch application status for each server. It is also possible to display information that has been filtered by specifying particular conditions.

- **Compare configuration baselines**

A configuration baseline is a snapshot of the information collected by the discovery function at a specific moment in time.

The **Configuration Baseline Comparison Results** window shows a list of the changes that have been made since the configuration baseline snapshot was taken.



If a problem occurs with a server, it is possible to check which patches have been applied since the server was last running correctly by comparing the current configuration baseline with the configuration baseline at the time when the server was running correctly.

The **Configuration Baseline Comparison Results** window also shows changes when there are differences in the definitions for RPM packages subject to Linux patch management between the two baselines being compared.

Configuration baselines are created by infrastructure administrators.

- **Patch Application wizard**

This wizard allows the user to apply patches by first selecting the target servers. Users can then select the required patches, and specify the application method.

- **Parameter Settings wizard**

This wizard allows the user to set parameters. The user selects the target server and software, and then the parameters to be set. The wizard also allows the user to edit the parameters to be set.

- **Script Execution wizard**

This wizard allows the user to run any script on the target server.

- **Maintenance**

The **Maintenance** window can be used to reference, update, delete, register and import the configuration items stored in the CMDB.

2.1 Server List

Display method

1. Log in to the management console.
2. Use either of the following methods to display the server list:
 - a. Select **Configuration management** from the menu in the management console.
 - b. Click the **Server list** link in the **Home** window.

The screenshot shows the Systemwalker management console interface. The top navigation bar includes 'Home', 'Configuration management', 'Patch management', and 'Task management'. The 'Server list' window is active, showing a table of servers. The table has columns for Server name, L-Platform name, Tenant name, IP address, Host name, OS, Last update, Unapplied..., and Unapplied... The table contains 13 items, with 12 visible. The interface includes a filter section at the top and navigation buttons at the bottom.

Server name	L-Platform name	Tenant name	IP address	Host name	OS	Last update	Unapplied...	Unapplied...
w2008r2_52(V...	w2008r2_52	Osaka Offic...	192.168.99...	V2J5N6PU5...	Window...	2012-06-17 23:...	35	1
w2008r2_53(V...	win2008r2en64...	Osaka Offic...	192.168.99...	VDUGYH5Y...	Window...	2012-06-17 23:...	35	1
rhel56en64_06...	rhel56en64_06...	Tokyo Offic...	192.168.99...	VO5R9TGL2...	Red Hat...	2012-06-18 02:...	38	1
rhel56en64_06...	rhel56en64_06...	Tokyo Offic...	192.168.99...	VBSEWG40...	Red Hat...	2012-06-18 02:...	36	1
rhel56en64_06...	rhel56en64_06...	Tokyo Offic...	192.168.99...	VBSEWG6A...	Red Hat...	2012-06-18 02:...	38	1
rhel56en64_06...	rhel56en64_06...	Tokyo Offic...	192.168.99...	V5M8QAZR...	Red Hat...	2012-06-18 02:...	36	0
rhel56en64_06...	rhel56en64_06...	Tokyo Offic...	192.168.99...	V5M8QA2BC...	Red Hat...	2012-06-18 02:...	36	2
rhel56en64_06...	rhel56en64_06...	Tokyo Offic...	192.168.99...	VEVHZKMO...	Red Hat...	2012-06-18 02:...	36	0
rhel56en64_06...	rhel56en64_06...	Tokyo Offic...	192.168.99...	VIZL3ORJXN...	Red Hat...	2012-06-18 02:...	36	1
rhel56en64_cl...	rhel56en64_clone	Tokyo Offic...	192.168.99...	VP6SAR2W...	Red Hat...	2012-06-18 02:...	38	0
w2008r2_54(V...	win2008r2en64...	Tokyo Offic...	192.168.99...	V1I4M64G37...	Window...	2012-06-18 02:...	48	3
w2008r2_58(V...	win2008r2en64...	Tokyo Offic...	192.168.99...	V3K6O961Q...	Window...	2012-06-18 02:...	48	1
win2008r2en64...	win2008r2en64...	Tokyo Offic...	192.168.99...	VM3P7SQC...	Window...	2012-06-18 02:...	47	1

Note

This window shows a list of the servers within the range managed by the login user.

Infrastructure administrator

Infrastructure administrators can reference information about all servers.

Dual-role administrator

Dual-role administrators can reference information about all servers.

Tenant administrator

Tenant administrators can reference information about the servers associated with their tenants (organization) to which they belong.

Tenant user

Tenant users can reference information about the servers that they manage.

Note

Solaris servers are not managed by Systemwalker Software Configuration Manager. Even if Solaris servers have been deployed using ServerView Resource Orchestrator, they will not be displayed in the **Server list** window.



Note

Conditions under which servers are counted as servers with unapplied patches

The conditions under which servers are counted as servers with unapplied patches differ with Windows patches, Linux patches, and Fujitsu middleware patches. These conditions are explained separately as below:

- Number of servers with unapplied Windows patches

The number of servers with unapplied Windows patches is the number of servers where the patches authorized by WSUS have not been applied.

- Number of servers with unapplied Linux patches

The number of servers with unapplied Linux patches is the number of servers where the patches registered with the yum repository server and have been defined as the management target have not been applied.

- Number of servers with unapplied Fujitsu middleware patches

The number of servers with unapplied Fujitsu middleware patches is the number of servers where the Fujitsu middleware patches distributed by Systemwalker Software Configuration Manager have not been applied.

The number of servers with unapplied Fujitsu middleware patches is the number of servers where the Fujitsu middleware patches registered using `swcfgm_fjmwpatch_update` (Fujitsu middleware patch registration command) have not been applied.

Operation method

Filter search

Specify the conditions for filtering the information in the server list.

Display item	Description
Filter	<p>The following filter conditions can be specified. Multiple filter conditions can be specified</p> <ul style="list-style-type: none"> - Server name - L-Platform name - Tenant name - IP address - Host name - OS - All applied - FJMW

Display items

The following table shows the items that are displayed in the server list:

Display item	Description
Checkbox	Selects the corresponding server as a target server for patch application.
Server name	<p>Displays the server names.</p> <p>Clicking a server name link displays the Server Details window.</p>
L-Platform name	Displays the L-Platform names.

Display item	Description
Tenant name	Displays the tenant names.
IP address	Displays the IP addresses.
Host name	Displays the host names.
OS	Displays the operating system names.
Last update	Displays the date and time when the patch application status was registered with WSUS. Not displayed for Linux patches.
Unapplied (OS)	Displays the number of OS patches that have not been applied.
Unapplied (MW)	Displays the number of Fujitsu middleware patches that have not been applied.

Note

The number of patches in the "Unapplied (OS)" column of this window may not match the number of patches to be applied as detected by the Check for Updates function on the business server.

The inconsistency arises when some patches are provided as part of a cumulative patch. This is because Systemwalker Software Configuration Manager counts all of the patches in a cumulative patch as patches that can be applied, while the Check for Updates function does not count patches in a cumulative patch as patches that can be applied.

For example, if Patch 3 is a cumulative patch containing Patch 1 and Patch 2, then Systemwalker Software Configuration Manager will detect them as three different patches that can be applied, but the Check for Updates function will detect them as one patch that can be applied.

Patches detected	Systemwalker Software Configuration Manager	Check for Updates function
Patch 3 (containing Patch 1 and Patch 2)	D	D
Patch 2	D	-
Patch 1	D	-

D: Detected as a patch that can be applied

-: Not detected as a patch that can be applied

If some patches are provided as part of a cumulative patch, Systemwalker Software Configuration Manager will no longer detect such patches in a cumulative patch as patches that can be applied, by having these patches unapproved on the WSUS server.

Operation buttons

The following operations can be performed from the **Server list** window:

Operation button	Description
Patch application	Select the server using the checkboxes, and click Patch application button. This displays the Patch Application wizard, enabling the user to distribute and apply patches originating from the server.
Parameter settings	Select the server using the checkboxes, and click Parameter settings button. This displays the Parameter Settings wizard, enabling the user to configure parameters for software installed on the selected server.

Operation button	Description
Script execution	Select the server using the checkboxes, and click Script execution button. This displays the Script Execution wizard, enabling the user to run scripts on the selected server.

2.1.1 Server Details

Display method

1. Use either of the following methods to display the server details:

- Click a server name link in the **Server list** window.
- Click a server name link in each window.

2. The **Server Details** window will be displayed.

The **Server Details** window shows information about the server, the installation status of software, and the application status of patches for the operating system and Fujitsu middleware.

The screenshot shows the 'Server Details' window with the following information:

Check details of the server.

Server name	BIS-MNG-DB01(VJ0BKNN7GW0001)
L-Platform name	LP-OSK-10001
Tenant name	Osaka Office(OSAKA)
IP address	192.168.99.50
Host name	VJ0BKNN7GW0001
OS	Windows Server 2008 R2 Enterprise
Contact person	osaka_admin taro fujitsu (Phone:1234-5678 Email:fujitsu.taro@example.com)

Installed software | OS patches | Fujitsu middleware patches

	Product name	Version	OS	Vendor
<input checked="" type="radio"/>	Example Software	V1	Windows	Example company
<input type="radio"/>	FJQSS (information collection tool)	V1.0.0.0	Windows EM64T	FUJITSU LIMITED
<input type="radio"/>	FJQSS (information collection tool)	V1.0.5	Windows EM64T	FUJITSU LIMITED
<input type="radio"/>	Interstage Application Server Enterpris...	V9.2.0	Windows EM64T	FUJITSU LIMITED
<input type="radio"/>	Systemwalker Runbook Automation (...)	V15.1.3	Windows EM64T	FUJITSU LIMITED
<input type="radio"/>	Systemwalker Software Configuration...	V15.2.0	Windows EM64T	FUJITSU LIMITED

1 - 6 of 6 items | 1/1page(s)

Parameter details

Compare configuration baselines | Patch application... | Download parameters in CSV format | Close

Operation method

Detailed information about the server

Detailed information about the server is displayed in the top section of the window.

Item	Description
Server name	Displays the server name.
L-Platform name	Displays the L-Platform name.
Tenant name	Displays the tenant name.
IP address	Displays the IP address.
Host name	Displays the host name.

Item	Description
OS	Displays the operating system name.
Contact person	Displays the user ID, user name, telephone number and email address.

Information about installed software

Clicking the **Installed software** tab in the bottom section of the window displays a list of the software (Fujitsu middleware) products that have been installed.

Item	Description
Product name	Displays the product names of the software products that have been installed.
Version	Displays the versions of the software products.
OS	Displays the operating systems (platforms).
Vendor	Displays the vendors of the software products.

Operation button

The following operation can be performed from the **Installed software** tab:

Operation button	Description
Parameter details	Select the software using the radio buttons and click Parameter details button to display the Parameter Details window.

Information about OS patch application

Clicking the **OS patches** tab in the bottom section of the window displays a list of the patches that have been applied and a list of the patches that have not been applied.

Clicking the **Unapplied patches** link displays a list of unapplied patches.

Clicking the **Applied patches** link displays a list of applied patches.

Table 2.1 Windows patches

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Patch type	Displays the patch types. (This indicates the classification of updates, which represents the WSUS update program type.) <ul style="list-style-type: none"> - Security Updates - Critical Updates - Feature Packs - Service Packs - Tools

Item	Description
	<ul style="list-style-type: none"> - Drivers - Updates - Update Rollups - Definition Updates
Product name	Displays the product name (operating system name) corresponding to each patch.
Overview	Displays an overview (or title) of each patch.
Release date	Displays the date when each patch was released.

Table 2.2 Linux patches

Item	Description
Package name	Displays the names of the RPM packages. Clicking a package name link displays the Patch Details window.
Version	Displays the versions of the packages.
Release	Displays the release numbers of the packages.
Architecture	Displays the architecture for each package.
Overview	Displays an overview of each package.
Release date	Displays the date when the package information was registered with Systemwalker Software Configuration Manager.

Information about Fujitsu middleware patch application

When the **Fujitsu middleware patches** tab in the bottom section of the window is selected, the application status of Fujitsu middleware patches is displayed.

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Importance	Displays the importance of each patch. <ul style="list-style-type: none"> - Recommended - Important - Security
Update type	Displays the update types of the patches. <ul style="list-style-type: none"> - Urgent
Product name	Displays the product names.
OS	Displays the operating systems (platforms).
Update title	Displays an overview (title) of each patch.

Item	Description
Release date	Displays the date when the patch information was registered with Systemwalker Software Configuration Manager.

Operation buttons

The following operations can be performed from the **Server Details** window:

Operation button	Description
Compare configuration baselines	Compares configuration baselines. Refer to " 2.3 Compare Configuration Baselines " for details.
Patch application	Displays the Patch Application wizard, enabling the user to distribute and apply unapplied patches to the relevant server.
Download parameters in CSV format	Outputs information on software parameters in CSV format.
Close	Closes the window.

2.1.2 Parameter Details

Display method

1. Select the software to reference using the radio buttons on the **Installed software** tab in the **Server Details** window. Click **Parameter details** button.
2. The **Parameter Details** window will be displayed.

The **Parameter Details** window displays the server and software information, as well as the values currently configured in the parameters, and those configured prior to the current values.

The screenshot shows the 'Parameter Details' window. At the top, it says 'Check the software parameters.' Below this, there are two sections of information:

Server Information:

Server name	BIS-MNG-DB01(VJ0BKNN7GW0001)
IP address	192.168.99.50
Host name	VJ0BKNN7GW0001
OS	Windows Server 2008 R2 Enterprise

Software Information:

Product name	Example Software
Version	V1
Vendor	Example company

Parameters Table:

Parameter information name: Example Software Parameter Pre Setting Definition ↔ Values are different

Key	Label	Type	Current value(2014-02-23 22:55:59)	Configured value(2014-02-23 22:32:37)
Param001		boolean	true	true
Param002		number	56789	12345
Param003		string	ABCDEFGFG	ABCDEFGFG
Param004		string...	-	-
[1]		-	123	123
[2]		-	ABC	abc

At the bottom of the window, there are buttons for 'Download CSV file', 'Download package', 'Parameter settings...', and 'Close'.

Operation method

Server information

Server information is displayed in the top section of the window.

Item	Description
Server name	Displays the server name.
IP address	Displays the IP address.
Host name	Displays the host name.
OS	Displays the operating system name.

Software information

Software information is displayed in the middle section of the window.

Item	Description
Product name	Displays the product name of installed software.
Version	- Displays the software version.
OS	- Displays the operating system type (platform).

Parameter information

Parameter information is displayed in the bottom section of the window.

Item	Description
Key	Displays the parameter key value.
Label	- Displays the parameter label. Note that labels are not displayed for array type elements or map type subkeys.
Type	- Displays the parameter type: - string - number - boolean - string array - map
Current value	Displays the parameter value that was discovered.
Configured value	Displays the value last set using parameter settings.

If there is a difference between **Current value** and **Configured value**, display this difference using the ó symbol.

Operation buttons

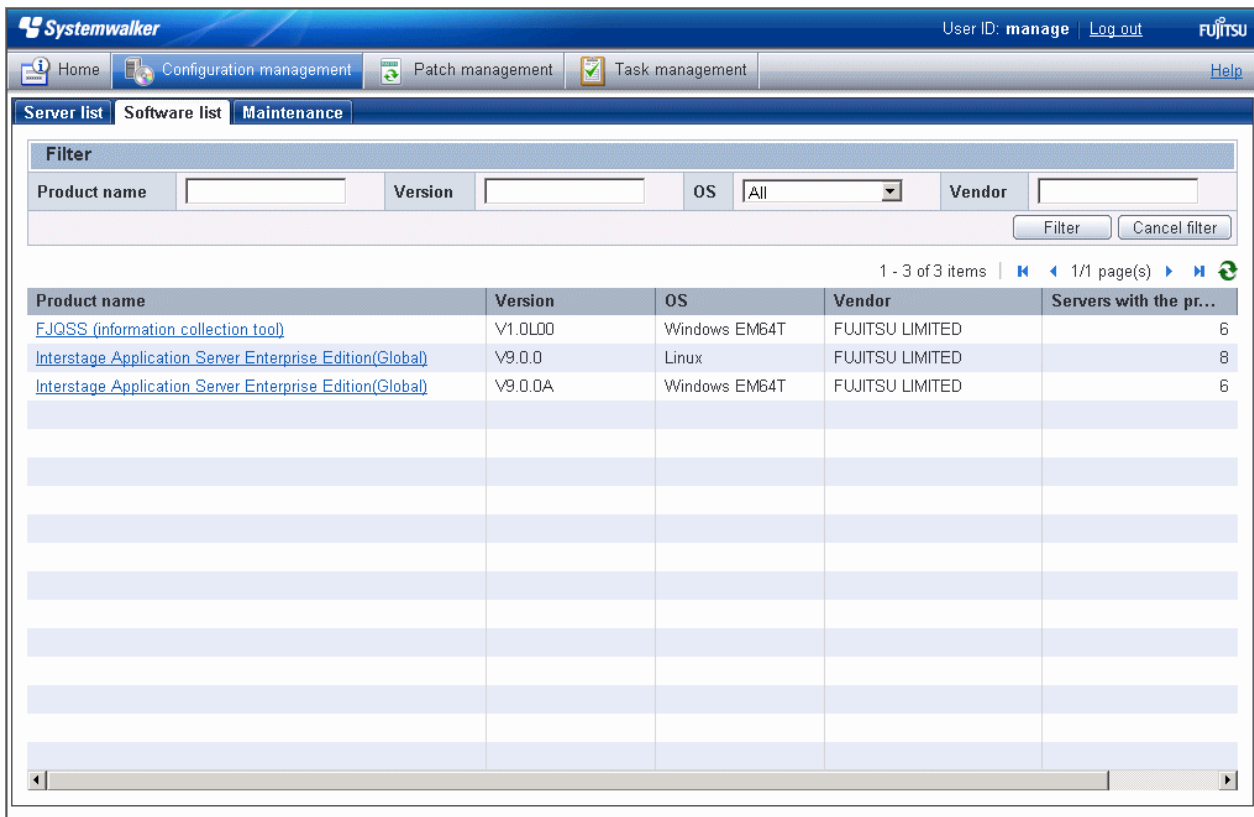
The following operations can be performed from the **Parameter Details** window:

Operation button	Description
Download CSV file	Outputs information on parameters in CSV format.
Download package	Downloads the registered parameter package.
Parameter settings	Displays the Parameter Settings wizard, enabling the user to configure parameters for the relevant server and software.
Close	Closes the window.

2.2 Software List

Display method

1. Log in to the management console.
2. Use the following method to display the software list:
 - a. Select **Configuration management** from the menu in the management console, and then select the **Software list** tab.
 - b. Click the **Software list** link in the **Home** window.



Product name	Version	OS	Vendor	Servers with the pr...
FJQSS (information collection tool)	V1.0L00	Windows EM64T	FUJITSU LIMITED	6
Interstage Application Server Enterprise Edition(Global)	V9.0.0	Linux	FUJITSU LIMITED	8
Interstage Application Server Enterprise Edition(Global)	V9.0.0A	Windows EM64T	FUJITSU LIMITED	6

Note

A list of the software (Fujitsu middleware) products installed on the servers within the range managed by the login user will be displayed.

Infrastructure administrator

Infrastructure administrators can reference information about the software installed on all the servers.

Dual-role administrator

Dual-role administrators can reference information about the software installed on all the servers.

Tenant administrator

Tenant administrators can reference information about the software installed on the servers associated with the tenants (organization) to which they belong.

Tenant user

Tenant users can reference information about the software installed on the servers that they manage.

Operation method

Filter search

Specify the conditions for filtering the information in the software list.

Display item	Description
Filter	The following filter conditions can be specified. Multiple filter conditions can be specified. <ul style="list-style-type: none">- Product name- Version- OS- Vendor

Display items

The following table shows the items that are displayed in the software list:

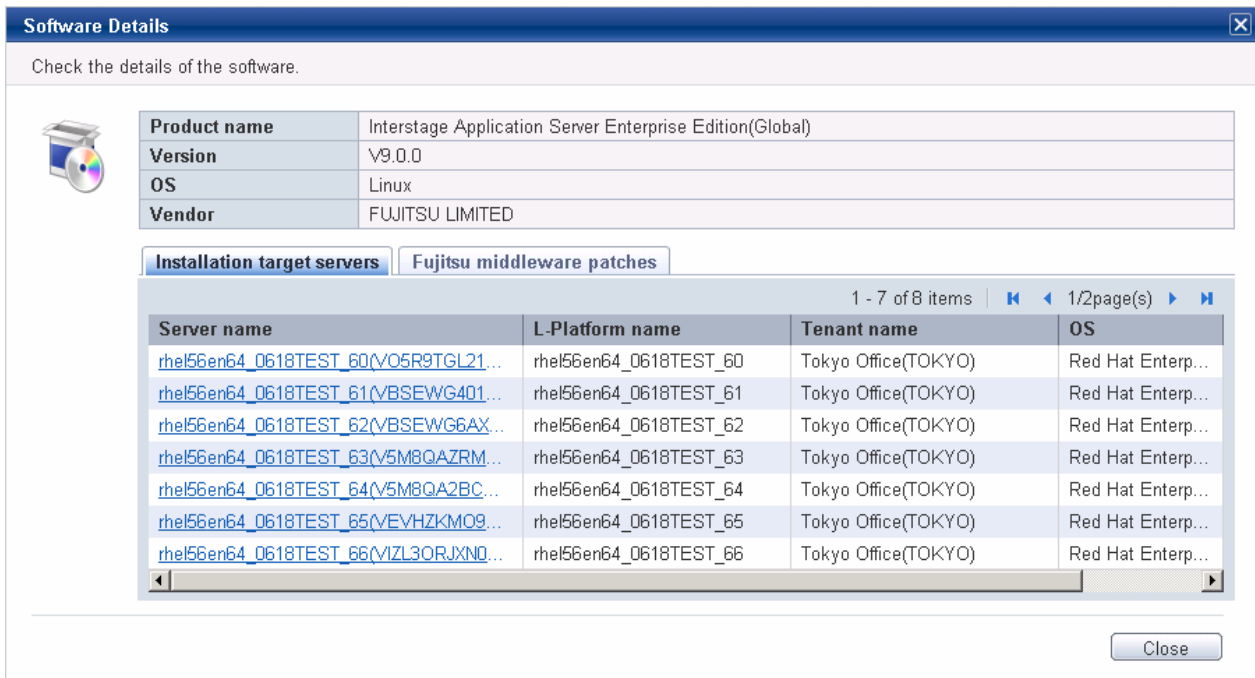
Display item	Description
Product name	Displays the product names of the software products that have been installed.
Version	Displays the versions of the software products.
OS	Displays the operating systems (platforms).
Vendor	Displays the vendors of the software products.
Servers with the product	Displays the number of servers where the software has been installed.

2.2.1 Software Details Window

Display method

1. Click a product name link in the **Software list** window.
2. The **Software Details** window will be displayed.

The **Software Details** window displays information about the software, together with a list of the servers where it has been installed and a list of the registered patches for that software.



Operation method

Software information

Information about the software is displayed in the top section of the window.

Item	Description
Product name	Displays the product name of installed software.
Version	Displays the version of the software.
OS	Displays the operating system (platform).
Vendor	Displays the vendor of the software.

Installation target servers

When the **Installation target servers** tab in the bottom section of the window is selected, a list of servers where the software has been installed is displayed.

Item	Description
Server name	Displays the server names.
L-Platform name	Displays the L-Platform names.
Tenant name	Displays the tenant names.
OS	Displays the operating systems.

Fujitsu middleware patches

When the **Fujitsu middleware patches** tab in the bottom section of the window is selected, a list of Fujitsu middleware patches is displayed.

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches.

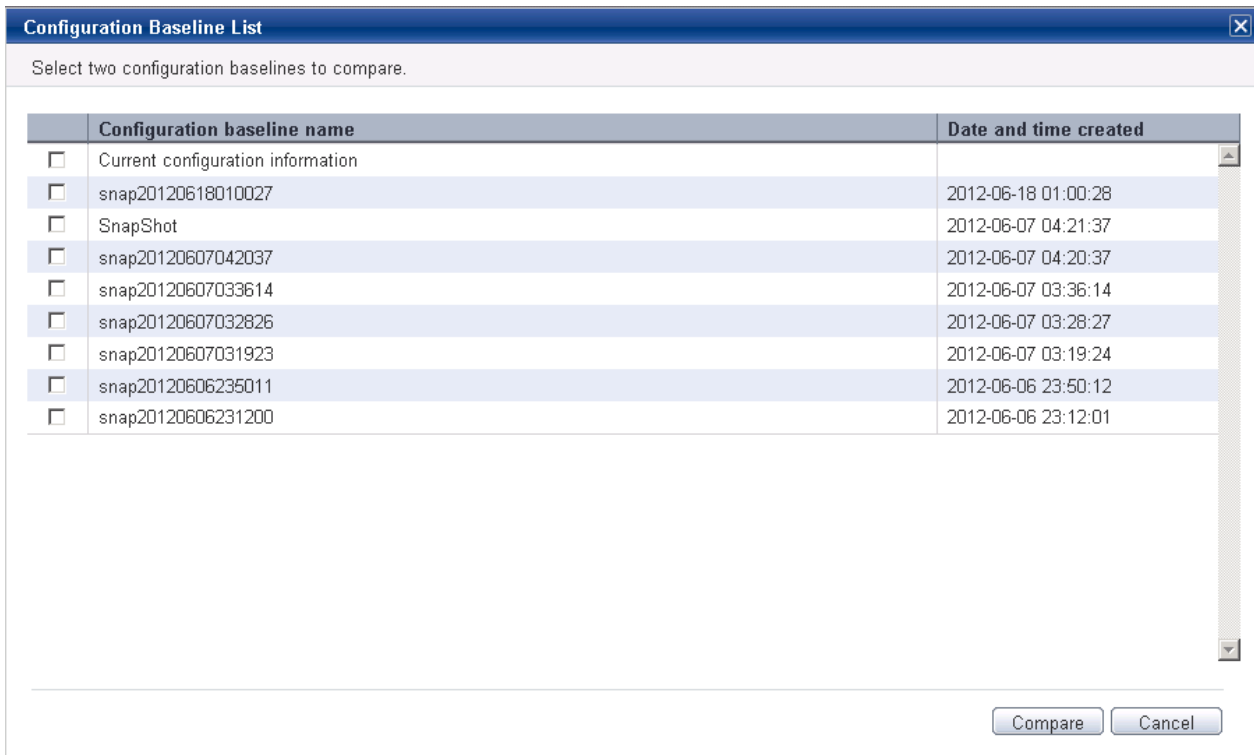
Item	Description
	<ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Importance	Displays the importance of each patch. <ul style="list-style-type: none"> - Recommended - Important - Security
Update type	Displays the update types of the patches. <ul style="list-style-type: none"> - Urgent
Update title	Displays an overview (title) of each patch.
Unapplied servers	Displays the number of servers where the patch has not been applied.

2.3 Compare Configuration Baselines

Display method

1. Click **Compare configuration baselines** in the **Server Details** window.

The **Configuration Baseline List** window will be displayed.



Operation method

Display items

Item	Description
Configuration baseline name	Displays the configuration baseline names. Current configuration information is displayed at the top of the list.
Date and time created	Displays the date and time when the configuration baseline was created. The creation time for the Current configuration information is not displayed.

Operation buttons

The following operations can be performed from the **Server Details** window:

Operation button	Description
Compare	Compares the two selected configuration baselines.
Cancel	Returns to the Server Details window.

2.3.1 Configuration Baseline Comparison Results

Display method

1. Select the checkboxes for the two configuration baselines to be compared in the **Configuration Baseline List** window.
2. Click **Compare**.

The **Configuration Baseline Comparison Results** window will be displayed.

Configuration Baseline Comparison Results

Review the patch differences between the two configuration baselines.

Server name	w2008r2_53(VDUGYH5YCB0001)
L-Platform name	win2008r2en64_0618TEST_53
Tenant name	Osaka Office(OSAKA)
IP address	192.168.99.53
Host name	VDUGYH5YCB0001
OS	Windows Server 2008 R2 Enterprise
Contact person	manage (Phone:1234-5678 Email:fujitsu.ichro@example.com)

Installed software | OS patches | Fujitsu middleware patches

Software added(2) | Software deleted(0)

Product name	Version	OS	Vendor
FJQSS (information collection tool)	V1.0L00	Windows EM64T	FUJITSU LIMITED
Interstage Application Server Enterprise...	V9.0.0A	Windows EM64T	FUJITSU LIMITED

Back Close

Operation method

Detailed information about the server

Detailed information about the server is displayed in the top section of the window.

Item	Description
Server name	Displays the server name.
L-Platform name	Displays the L-Platform name.
Tenant name	Displays the tenant name.
IP address	Displays the IP address.
Host name	Displays the host name.
OS	Displays the operating system
Contact person	Displays the user ID, user name, telephone number and email address.

Information about the differences in installed software

When the **Installed software** tab in the bottom section of the window is selected, a list of the software products that have been added between the two configuration baselines will be displayed, together with a list of the software products that have been removed.

Item	Description
Product name	Displays the product names of the software products that have been installed.
Version	Displays the versions of the software products.
OS	Displays the operating systems.
Vendor	Displays the vendors of the software products.

Information about the differences in OS patches

When the **OS patches** tab in the bottom section of the window is selected, a list of the patches that have been added between the two configuration baselines will be displayed, together with a list of the patches that have been removed.

Table 2.3 Windows patches

Item	Description
Patch ID	Displays the patch IDs. Clicking a patch ID link displays the Patch Details window.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Patch type	Displays the patch types. (This indicates the classification of updates, which represents the WSUS update program type.) <ul style="list-style-type: none"> - Security Updates - Critical Updates - Feature Packs - Service Packs - Tools - Drivers - Updates

Item	Description
	<ul style="list-style-type: none"> - Update Rollups - Definition Updates
Product name	Displays the product name (operating system name) corresponding to each patch.
Release date	Displays the date when each patch was released.
Overview	Displays an overview (or title) of each patch.

For Linux patches, lists of the patches that have been changed, added and removed will be displayed.

Table 2.4 Linux patches

Item	Description
Package name	Displays the names of the RPM packages. Clicking a package name link displays the Patch Details window.
Version	Displays the versions of the packages.
Release	Displays the release numbers of the packages.
Architecture	Displays the architecture for each package.
Overview	Displays an overview of each package.
Release date	Displays the date when the package information was registered with Systemwalker Software Configuration Manager.

Note: In the list of patches that have been changed, the version/release information is displayed using the format "new version/release (old version/release)".

Information about the differences in Fujitsu middleware patches

When the **Fujitsu middleware patches** tab in the bottom section of the window is selected, a list of the patches that have been added between the two configuration baselines will be displayed, together with a list of the patches that have been removed.

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Importance	Displays the importance of each patch. <ul style="list-style-type: none"> - Recommended - Important - Security
Update type	Displays the update types of the patches. <ul style="list-style-type: none"> - Urgent
Product name	Displays the product names.
OS	Displays the operating systems (platforms).

Item	Description
Release date	Displays the date when the patch information was registered with Systemwalker Software Configuration Manager.

Operation buttons

The following operations can be performed from the **Configuration Baseline Comparison Results** window:

Operation button	Description
Back	Returns to the Configuration Baseline List window.
Close	Returns to the Server Details window.

2.4 Patch Application Wizard

Patch application is set up by first selecting the servers where the patches are to be applied.

Point

The roles of the people who distribute and apply patches

The explanations in this section assume that the roles of the people who distribute and apply patches can be classified as follows:

Infrastructure administrator

- Infrastructure administrators are responsible for patch management (management for WSUS, yum repository servers and the media library).
- Infrastructure administrators do not distribute or apply patches.
- When an error occurs with the patch distribution/application processing, a message may be output to the event log or syslog. If this happens, infrastructure administrators need to check the content of the message and take the necessary action such as reviewing the environment settings.

Tenant administrator

- Tenant administrators use the management console to distribute and apply patches to the servers for the tenants to which they belong.

Tenant user

- Tenant users distribute and apply patches to those servers that they manage themselves.

Dual-role administrator

- Dual-role administrators have the roles of both infrastructure administrators and tenant administrators. When acting as a tenant administrator, a dual-role administrator can distribute and apply patches to the servers in all tenancies.

Display method

1. Click **Patch application** button in one of the following windows:
 - **Server list** window
 - **Server Details** window
2. Perform the following patch application setup and confirmation operations in the wizard:
 - a. Select the patch type
 - b. Select the patches to be applied

- c. Set the application method
- d. Check the settings
- e. Completion

2.4.1 Select Type

If either of the following operations is performed, the **Select type** window of the **Patch Application** wizard will be displayed:

- Use the checkboxes in the **Server list** window to select servers, and then click **Patch application** button.
- Click **Patch application** button in the **Server Details** window.

Operation method

Selecting patch types

Select the patch type and operating system for the patch to be applied.

Item	Description
Patch type	Select either of the following as the type of the patch to be applied: <ul style="list-style-type: none"> - OS patches - Fujitsu middleware patches
OS	Select either of the following as the operating system to which the patch is to be applied: <ul style="list-style-type: none"> - Windows - Linux

Item	Description
	- If only Windows servers or Linux servers have been selected, the radio buttons will be grayed out so that they cannot be selected.

Operation buttons

Operation button	Description
Next	Moves to the Select servers window.
Cancel	Closes the Patch Application wizard.

2.4.2 Select Patches

When **Next** is clicked in the **Select type** window, the **Select patches** window is displayed.

The patches that can be applied to the selected servers will be displayed in the list of patches.

Select the patches to be applied.

Patch Application

Select type > Select patches > Application method > Confirm > Patching request complete

Select the patches to apply.

Select patches[OS patches – Windows]

Selected servers(5 items)

Server name	OS	L-Platform name	Tenant name
w2008r2_52(V2J5N6PU5M0001)	Windows Server 2008 R2...	w2008r2_52	Osaka Office(OSAKA)
w2008r2_53(VDUGYH5YCB0001)	Windows Server 2008 R2...	win2008r2en64_0618TE...	Osaka Office(OSAKA)
w2008r2_54(V1I4M64G370001)	Windows Server 2008 R2...	win2008r2en64_0618TE...	Tokyo Office(TOKYO)
w2008r2_58(V3K6O961QX0001)	Windows Server 2008 R2...	win2008r2en64_0618TE...	Tokyo Office(TOKYO)
win2008r2en64_0618TEST_59(VM3P7SQC0U0001)	Windows Server 2008 R2...	win2008r2en64_0618TE...	Tokyo Office(TOKYO)

OS patches to apply

<input type="checkbox"/>	Patch ID	Class	Product name	Patch type	Overview	Release date
<input type="checkbox"/>	KB2656372	Required	Windows 7; Wi...	Security Updates	Security Update for Micr...	2012-06-12
<input type="checkbox"/>	KB2658846	Required	Windows Server...	Security Updates	Security Update for Wind...	2012-05-08
<input type="checkbox"/>	KB2667402	Required	Windows Server...	Security Updates	Security Update for Wind...	2012-06-12
<input type="checkbox"/>	KB2677070	Recommended	Windows Server...	Updates	Update for Windows Serv...	2012-06-12
<input type="checkbox"/>	KB2685939	Required	Windows Server...	Security Updates	Security Update for Wind...	2012-06-12
<input type="checkbox"/>	KB2686830	Required	Windows 7; Wi...	Security Updates	Security Update for Micr...	2012-06-12

Back Next Cancel

Operation method

Selected servers

This list displays the servers to which the patches are to be applied.

Item	Description
Server name	Displays the server names.
OS	Displays the operating system names.
L-Platform name	Displays the L-Platform names.
Tenant name	Displays the tenant names.

Selecting patches

Select the patches to be applied.

Table 2.5 Windows patches

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Product name	Displays the product name (operating system name) corresponding to each patch.
Patch type	Displays the patch types. (This indicates the classification of updates, which represents the WSUS update program type.) <ul style="list-style-type: none"> - Security Updates - Critical Updates - Feature Packs - Service Packs - Tools - Drivers - Updates - Update Rollups - Definition Updates
Overview	Displays an overview (or title) of each patch.
Release date	Displays the date when each patch was released.

Table 2.6 Linux patches

Item	Description
Package name	Displays the names of the RPM packages. Clicking a package name link displays the Patch Details window.
Version	Displays the versions of the packages.
Release	Displays the release numbers of the packages.
Architecture	Displays the architecture for each package.
Overview	Displays an overview of each package.
Release date	Displays the date when the package information was registered with Systemwalker Software Configuration Manager.

Table 2.7 Fujitsu middleware patches

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches.

Item	Description
	<ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Importance	Displays the importance of each patch. <ul style="list-style-type: none"> - Recommended - Important - Security
Update type	Displays the update types of the patches. <ul style="list-style-type: none"> - Urgent
Product name	Displays the product names.
OS	Displays the operating systems (platforms).
Release date	Displays the date when the patch information was registered with Systemwalker Software Configuration Manager.

Operation buttons

Operation button	Description
Back	Returns to the Select servers window.
Next	Moves to the Application method window if a patch has been selected using a checkbox.
Cancel	Closes the Patch Application wizard.

2.4.3 Application Method

When **Next** is clicked in the **Select patches** window, the **Application method** window is displayed.

Patch Application [X]

Select type > Select patches > Application method > Confirm > Patching request complete

Enter the patch application method.

Enter the application method

Schedule		<input checked="" type="radio"/> Immediately <input type="radio"/> Specific date and time <input type="text" value="yyyy-mm-dd"/> <input type="text" value="00"/> : <input type="text" value="00"/>
Script registration	Before execution	<input type="text"/> <input type="button" value="Browse..."/> If an error occurs: <input checked="" type="radio"/> Confirm <input type="radio"/> Continue
	After execution	<input type="text"/> <input type="button" value="Browse..."/> If an error occurs: <input checked="" type="radio"/> Confirm <input type="radio"/> Continue
Restart operating system after application		<input checked="" type="radio"/> Yes (when reboot is required) <input type="radio"/> No

Operation methods

Setting up the application method

Item	Description
Schedule	<p>Specify a schedule.</p> <ul style="list-style-type: none"> - Immediately: Select this option to perform the processing as soon as settings in the wizard are complete. - Specific date and time: Specify the date and time when processing is to be executed. <p>Specify a date and time that is later than the current date and time on the admin server.</p>
Script	<p>Specify the scripts to be executed before and after patch distribution/application, as well as the behavior of patch application processing if an error occurs during script execution.</p> <p>To apply Fujitsu middleware patches, a script specifying the application processing must be created and then registered as a post-execution script.</p> <p>Create the scripts registered here so that they output "0" as a return value to indicate normal completion and a value other than "0" as a return value to indicate an error.</p> <p>For the script to be registered, specify the full path to the file that is stored on the local machine where the browser is running.</p> <ul style="list-style-type: none"> - Confirm: If an error occurs, the user can select the appropriate script processing (such as "retry", "continue processing", or "cancel processing") from the Task management window or by using the job information management command. Refer to "Chapter 4 Task Management" for information on the Task management window. Refer to "Job Information

Item	Description
	<p>Management Command" in the <i>Reference Guide</i> for information on the command.</p> <ul style="list-style-type: none"> - Continue: Processing will continue even if an error occurs. <p>Refer to "Creating Scripts" in the <i>Operation Guide</i> for information on the scripts that are registered here.</p>
Restart operating system after application	<p>Select whether to restart the server after the patch is distributed and applied.</p> <ul style="list-style-type: none"> - Yes <p>The behavior varies depending on the patch type, as follows:</p> <ul style="list-style-type: none"> - OS patches <p>The server will only be restarted for those patches that need to have the server restarted.</p> <ul style="list-style-type: none"> - Fujitsu middleware patches <p>The server will be restarted without fail.</p> <ul style="list-style-type: none"> - No <p>The server will not be restarted.</p>

Operation buttons

Operation button	Description
Back	Returns to the Select patches window.
Next	Moves to the confirmation window.
Cancel	Closes the Patch Application wizard.

2.4.4 Confirm

When **Next** is clicked in the **Application method** window, the **Confirm** window is displayed.

Check the settings that have been entered.

Patch Application [X]

Select type > Select patches > Application method > Confirm > Patching request complete

Check the patch application details.

Confirm

Application method

Schedule	Immediately		
Script registration	Before execution	-	If an error occurs: -
	After execution	-	If an error occurs: -
Reboot after application	Reboot (when required)		

Update details

Server name	Patch ID	Class	Patch type	L-Platform name	Tenant name
w2008r2_52(V2J5...	KB971468	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB972270	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB974455	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB974571	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB975467	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB975560	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB976098	Recommended	Update Rollups	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB976325	Required	Security Updates	w2008r2_52	Osaka Office(OSA...

Download CSV file [Back] [execute] [Cancel]

Operation method

Application method

This section displays the settings that have been specified in the **Application method** window.

Update details

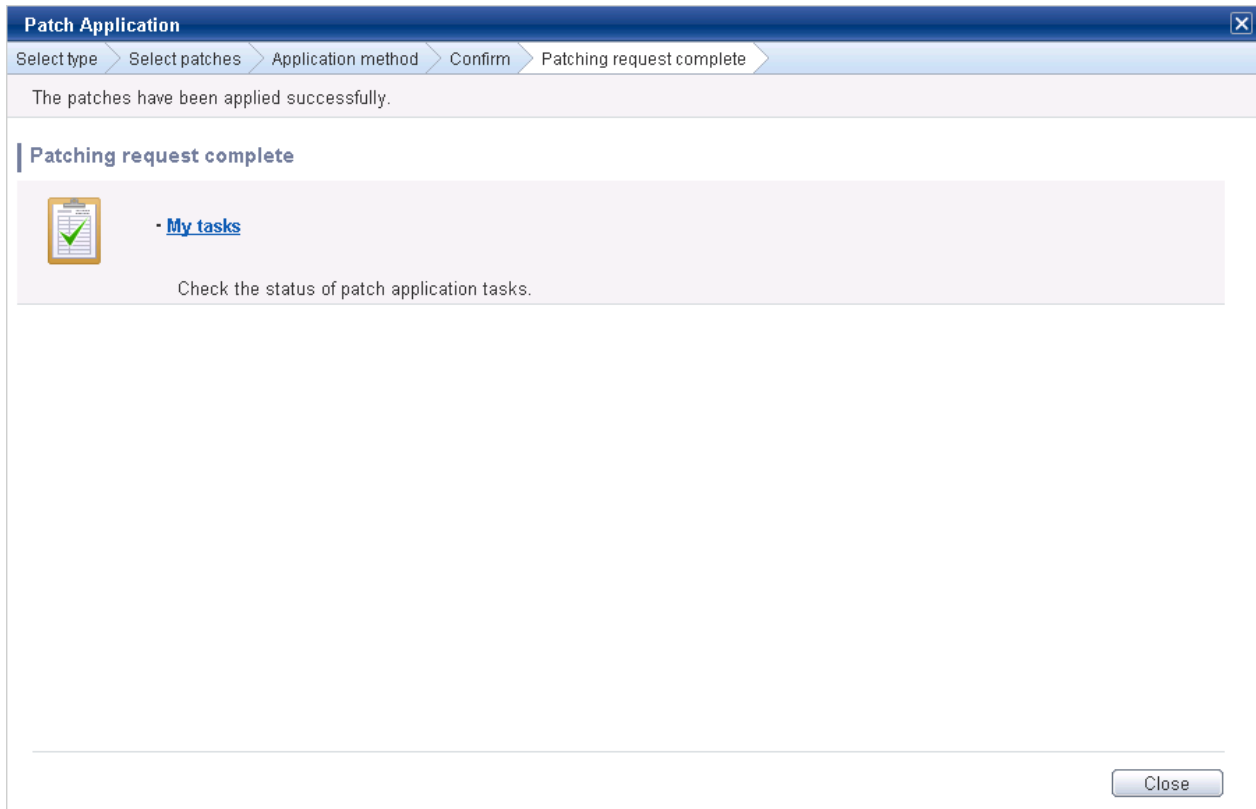
Item	Description	
Server name	Displays the server names.	
For Windows	Patch ID	Displays the patch IDs.
	Class	Displays the classification levels ("Required" or "Recommended") of the patches.
	Patch type	Displays the patch types. (This indicates the classification of updates, which represents the WSUS update program type.)
For Linux	Package name	Displays the names of the packages.
	Version	Displays the versions of the packages.
	Release	Displays the release numbers of the packages.
For Fujitsu middleware	Patch ID	Displays the patch IDs.
	Importance	Displays the importance of each patch ("Recommended", "Important" or "Security").
	Update type	Displays the update type of each patch ("Urgent").
L-Platform name	Displays the L-Platform names.	
Tenant name	Displays the tenant names.	

Operation buttons

Operation button	Description
Download CSV file	Outputs the information displayed in Update details to a CSV file.
Back	Returns to the Application method window.
Execute	Executes the patch application.
Cancel	Closes the Patch Application wizard.

2.4.5 Patching Request Complete

When **Next** is clicked in the **Confirm** window, the **Patching request complete** window is displayed.



Operation method

My tasks

Item	Description
My tasks	Allows the user to move to the Task management window, where the status of the patch application operation that has been executed can be checked. The status of the patch application operation that was executed can also be checked by using the job information management command. Refer to "Job Information Management Command" in the <i>Reference Guide</i> for details.

Operation button

Operation button	Description
Close	Closes the Patch Application wizard.

2.5 Parameter Settings Wizard

This wizard configures the software parameters.

Display method

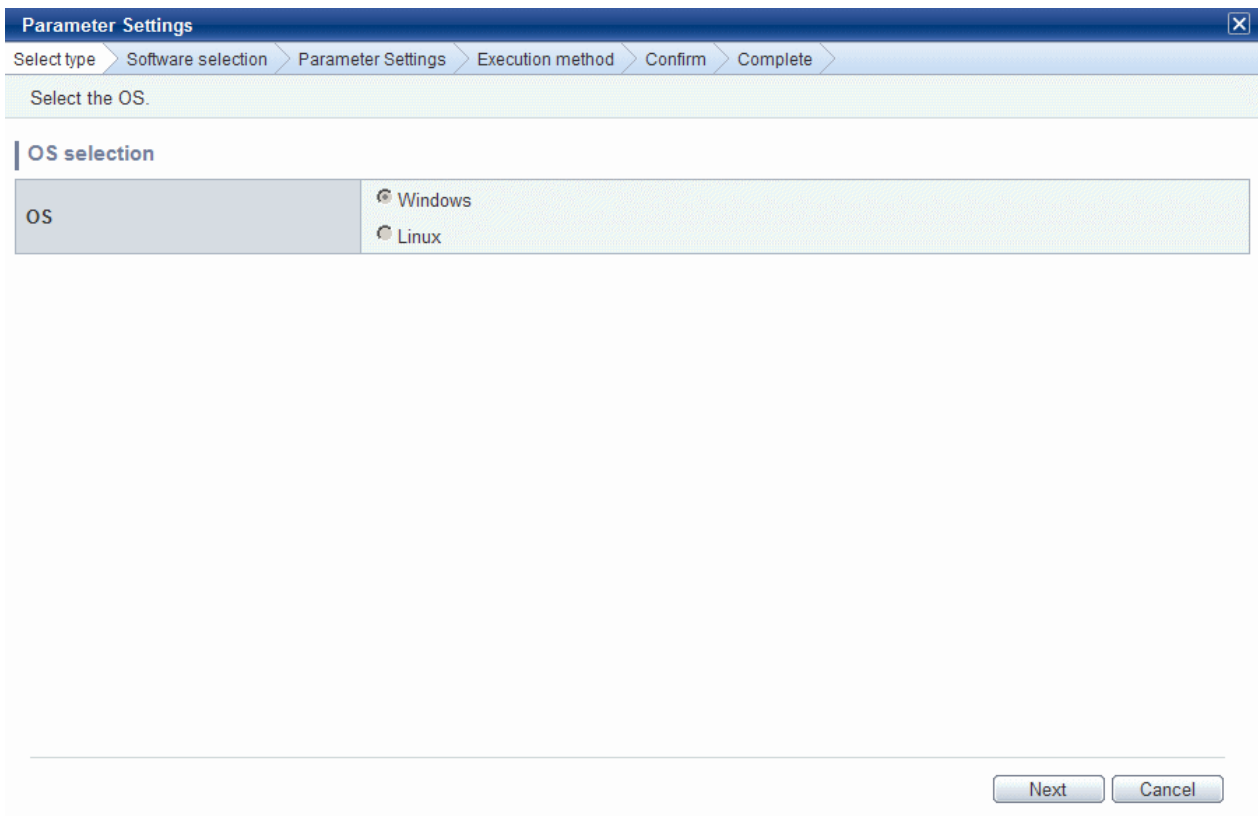
1. Click **Parameter settings** button in one of the windows below:
 - **Server list** window
 - **Parameter Details** window
2. The parameter settings and checks listed below are carried out using the wizard:
 - a. Select the OS of the server on which the parameters will be configured
 - b. Select the software to which parameters apply
 - c. Select the parameters to be configured
 - d. Edit the parameters for custom configurations
 - e. Configure how the parameters will be executed
 - f. Check the settings
 - g. Patching request complete

2.5.1 OS Selection

If the operation below is performed, the **Select type** window of the **Parameter Settings** wizard will be displayed.

- Use the checkboxes in the **Server list** window to select the server and click **Parameter settings** button.

Note that the **Select type** window will not appear if the **Parameter Settings** wizard is displayed by clicking **Parameter settings** button in the **Parameter Details** window.



Operation method

OS Selection

Select the OS of the server on which the parameters will be configured.

Item	Description
OS	Select one of the following operating systems for the server on which the parameter settings are to be applied: <ul style="list-style-type: none">- Windows- Linux If only Windows servers or Linux servers have been selected, the radio buttons will be grayed out so that they cannot be selected.

Operation buttons

Operation button	Description
Next	Moves to the Software Selection window.
Cancel	Closes the Parameter Settings wizard.

2.5.2 Software Selection

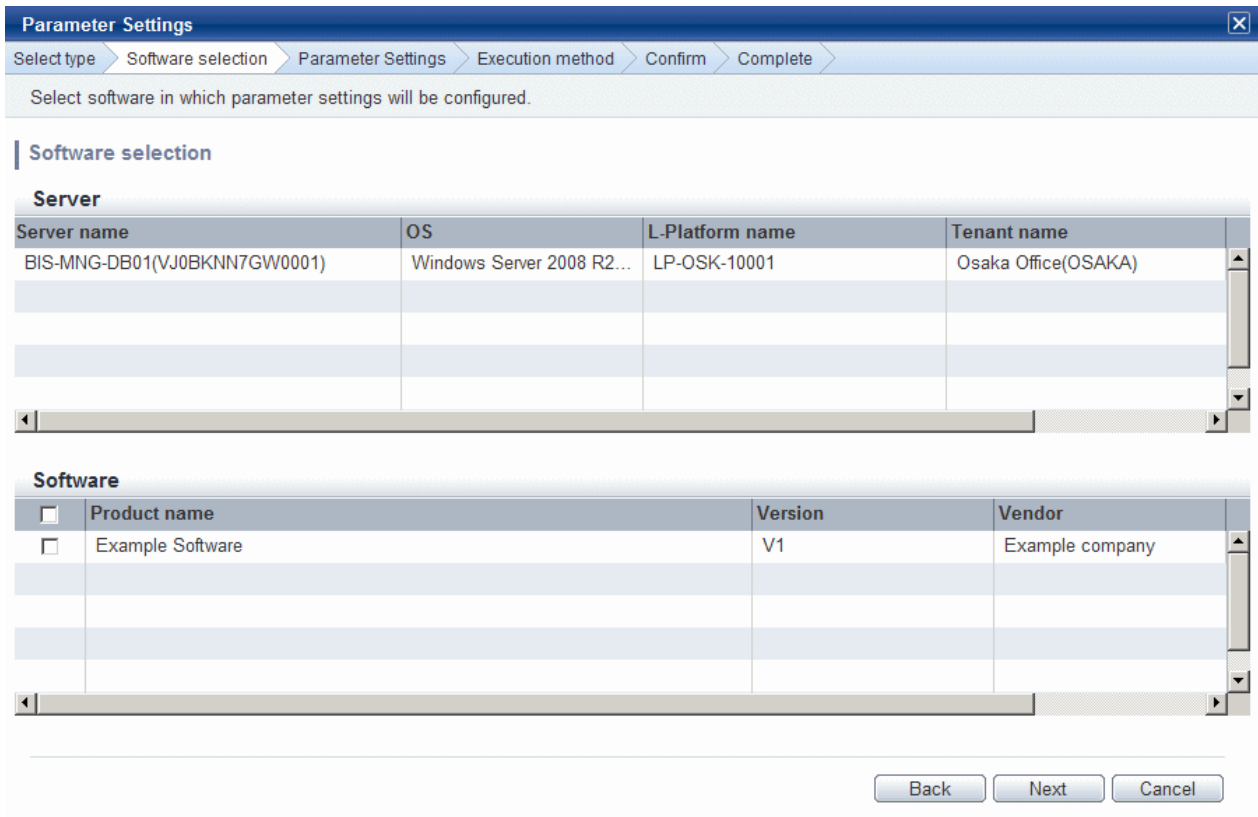
Click **Next** in the **Select type** window to display the **Software Selection** window.

The **Software list** displays the software on the selected server for which parameters can be configured.

Select the software for which parameters are to be set.

Note that the **Software list** will not be displayed if there is no software on the selected server for which parameters can be configured. Click **Cancel** to re-select the server.

Also, note that the **Software Selection** window will not appear if the **Parameter Settings** wizard is displayed by clicking **Parameter settings** button in the **Parameter Details** window.



Operation method

Servers

This list displays the servers for which parameters can be configured.

Item	Description
Server name	Displays the server name.
OS	Displays the operating system name.
L-Platform name	Displays the L-Platform name.
Tenant name	Displays the tenant name.

Software

Select the software for which parameters are to be set.

Item	Description
Product name	Displays the product name(s).
Version	Displays the version.
Vendor	Displays the vendor.

Operation buttons

Operation button	Description
Back	Returns to the Select type window.
Next	Moves to the Parameter Settings window if software is selected.
Cancel	Closes the Parameter Settings wizard.

2.5.3 Parameter Settings

Perform any of the following operations to display the **Parameter Settings** window:

- Click **Next** in the **Software Selection** window.
- Click **Parameter settings** button in the **Parameter Details** window to display the **Parameter Settings** wizard.

Select the **Parameter information name** for the parameters to be configured in each type of software.

Operation method

Parameter configuration

Select the parameter information to be configured in each type of software.

Item	Description
Setting order	Displays the sequence in which the parameters are to be set. Parameters are configured in descending order from the top. To change the configuration sequence, use the radio buttons to select the software and click Up or Down to modify the order.
Product name	Displays the product name(s).
Version	Displays the version.
Vendor	Displays the vendor.
Parameter information name	Allows you to select the parameter information to be set. If (Custom setting) is selected, click Confirm/edit to display the Edit Parameter Information window and customize the parameter settings.

Operation buttons

Operation button	Description
Confirm/edit	Enables checking/editing of the parameters set in the software selected using radio buttons. The Edit Parameter Information window is displayed.
Up	The selected software will move up one position in the parameter settings order.
Down	The selected software will move down one position in the parameter settings order.
Back	Returns to the Software Selection window.
Next	Moves to the Execution Method window if parameter information names are selected for all software.
Cancel	Closes the Parameter Settings wizard.

2.5.4 Editing Parameter Information

Display the **Edit Parameter Information** window by selecting the parameter information name to configure in the software on the **Parameter Settings** window, and then click **Confirm/edit**.

Edit the parameters to be set.

Enter parameter value.

Software information

Product name (version) Example Software (V1)

Parameter information

Parameter information name Setting Definition L (Custom setting)

Description This is a custom setting

Package Do not use New upload Use defined package

* Modified

	Key	Label	Type	Current value	Value to configure
<input type="radio"/>	Param001	Parameter of boo...	boolean		* false
<input type="radio"/>	Param002	Parameter of nu...	number		100
<input checked="" type="radio"/>	Param003	Parameter of cha...	string		* ABCDE
<input type="radio"/>	Param004	Parameter of stri...	string array		-
	[1]		-		123
	[2]		-		456
<input type="radio"/>	Param005	Parameter of ma...	map		-

Edit Cancel editing Set default value

OK Cancel

Operation method

Software information

Item	Description
Product name (version)	Displays the product name and version.

Parameter information

Item	Description
Parameter information name	Displays the parameter information name.
Reference source	Select the parameter information name to be referenced in Custom Setting.
Description	Displays a description of the parameter information name.
Package	Allows you to select the parameter package method using one of the following radio buttons: <ul style="list-style-type: none"> - Do not use: Do not use a package. - New upload: Use the Browse button to specify the package file to be uploaded. - Use defined package: Use the package registered in the parameter information.
Key	Displays the parameter key.
Label	Displays the parameter label.
Type	Displays the parameter type: <ul style="list-style-type: none"> - string - number - boolean - string array - map
Current value	Displays the parameter value that was discovered.
Value to configure	Displays the value last set using parameter settings.

Operation buttons

Operation button	Description
Browse	Specifies the path of the package file to be uploaded.
Download	Downloads the package file registered in the parameter information.
Edit	Edits the value to be configured in the selected key. Displays the Edit Values window.
Cancel editing	Returns the value configured for the key selected using radio buttons to its value prior to the edit.
Set default value	Sets the value configured for the key selected using radio buttons as the default in the parameter settings definition.
OK	Confirms the configured details and closes the Edit Parameter Information window.
Cancel	Discards the configured details and closes the Edit Parameter Information window.

Information

- Parameters that can be set

Use the parameter settings definitions associated with your software to define the parameters that can be set in the software. Refer to the section on software products in "Parameter Reference" for information on the parameter settings definitions for software pre-registered with this product. For other software, check its parameter settings definitions.

- Specifying a parameter package

The parameter settings definitions determine what can be specified for parameter packages. Check the parameter settings definitions for your software.

- Notes regarding files to be included in a parameter package

In some cases parameter setting fails because the format of a file contained in a parameter package is invalid. Exercise caution when using the following due to their effect on file format:

- Linefeed

In Windows, use CR+LF. In Linux, use LF.

- Byte order mark (BOM)

Including the UTF-8 byte order mark (BOM) can cause an error.

- Character encoding

The default character encoding is different in Windows and Linux.

- Japanese is prohibited in file names

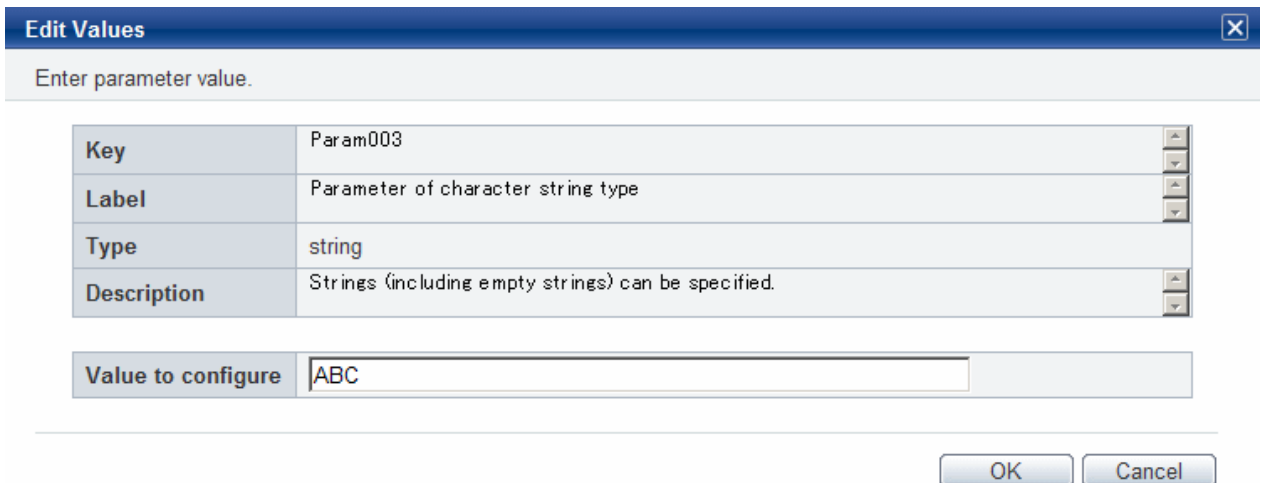
You cannot use Japanese in file names. Other restrictions conform to operating system conventions.

2.5.5 Editing Values

To display the **Edit Values** window, select a parameter key in the **Edit Parameter Information** window, and then click **Edit**.

Edit the parameters to be set.

'string' or 'number' parameter key types



Key	Param003
Label	Parameter of character string type
Type	string
Description	Strings (including empty strings) can be specified.

Value to configure:

OK Cancel

'boolean' parameter key types

The screenshot shows a dialog box titled "Edit Values" with a close button (X) in the top right corner. Below the title bar, there is a text prompt "Enter parameter value." The main content area contains a table with the following data:

Key	Param001
Label	Parameter of boolean type
Type	boolean
Description	The values true and false can be specified.

Below the table, there is a section labeled "Value to configure" with two radio buttons: true and false. At the bottom right of the dialog, there are two buttons: "OK" and "Cancel".

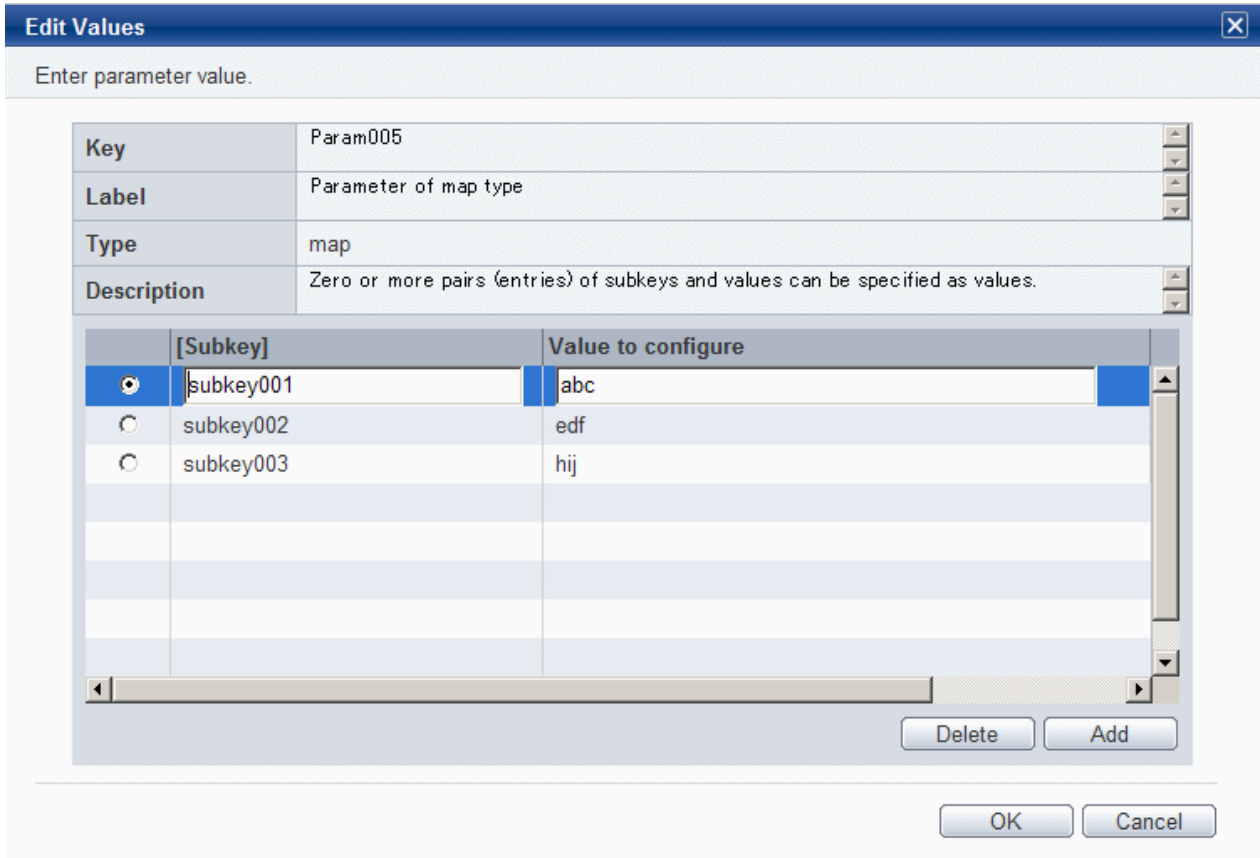
'string array' parameter types

The screenshot shows a dialog box titled "Edit Values" with a close button (X) in the top right corner. Below the title bar, there is a text prompt "Enter parameter value." The main content area contains a table with the following data:

Key	Param004
Label	Parameter of string array type
Type	string array
Description	String arrays with zero or more elements can be specified (the array index starts from 1).

Below the table, there is a table with two columns: "[Array number]" and "Value to configure". The first row is selected (highlighted in blue) and has a radio button to its left. The second row has a radio button to its left. There are four empty rows below the second row. At the bottom of this table, there are four buttons: "Up", "Down", "Delete", and "Add". At the bottom right of the dialog, there are two buttons: "OK" and "Cancel".

'map' parameter types



Operation method

Software information

Item	Description
Key	Displays the parameter key.
Label	Displays the parameter label.
Type	Displays the parameter type.
Description	Displays a description of the parameter.
Value to configure	<ul style="list-style-type: none"> - 'string' or 'number' types: Enter the parameter value. - 'boolean' types: Use the radio buttons to select "true" or "false". - 'string array' type: Enter the value by using the radio button to select the appropriate array number. The Up and Down buttons may be used to change the array sequence for the values thus entered. Arrays may also be added or deleted. - 'map' type: Select the relevant subkey radio button and enter the value. A subkey can also be edited, added or deleted.

Operation buttons

Operation button	Description
Up	Move the selected array up one position.
Down	Move the selected array down one position.
Add	Adds an array below the last line.
Delete	Deletes the selected array.
OK	Confirms the configured details and closes the Edit Values window.
Cancel	Discards the configured details and closes the Edit Values window.

2.5.6 Execution Method

Click **Next** in the **Parameter Settings** window to display the **Execution Method** window.

Operation method

Execution method input

Item	Description
Schedule	<p>Specify a schedule.</p> <ul style="list-style-type: none"> - Immediately: Select this option to immediately execute processing when the settings in the wizard are complete. - Specific date and time: Specify the date and time when the processing is to be executed. Specify a date and time that is later than the current date and time on the admin server.

Item	Description
Script	<p>Specify the script to be executed before and after setting the parameters, as well as the behavior of the parameter processing if an error occurs during script execution.</p> <p>Create the scripts registered here so that they output a return value of "0" to indicate normal completion and a return value other than "0" to indicate an error.</p> <p>For a script to be registered, specify the full path to the file that is stored on the local machine where the browser is running.</p> <ul style="list-style-type: none"> - Confirm: If an error occurs, the user can select the appropriate script processing (such as "retry", "continue processing", or "cancel processing") from the Task management window or by using the job information management command. Refer to "Chapter 4 Task Management" for information on the Task management window. Refer to "Job Information Management Command" in the <i>Reference Guide</i> for information on the command. - Continue: Continue processing even if an error occurs.
Restart operating system after execution	<p>Select whether to restart the server after parameters have been set.</p> <ul style="list-style-type: none"> - Yes: Restart server. - No: Do not restart server.

Operation buttons

Operation button	Description
Back	Returns to the Parameter Settings window.
Next	Moves to the confirmation window.
Cancel	Closes the Parameter Settings wizard.

2.5.7 Confirmation

Click **Next** in the **Execution Method** window to display the **Confirm** window.

Check the settings that have been entered.

Parameter Settings [X]

Select type > Software selection > **Parameter Settings** > Execution method > Confirm > Complete

Check the parameter setting details.

Confirm

Execution method

Schedule	Immediately		
Script	Before execution	-	If an error occurs: -
	After execution	-	If an error occurs: -
Restart operating system after execution	No		

Parameter settings

Setting order	Server name	L-Platform name	Tenant name	Product name	Version	Parameter information name
1	BIS-MNG-D...	LP-OSK-10001	Osaka Office...	Example Software	V1	(Custom setting)

Download CSV file [Back] [Execute] [Cancel]

Operation method

Parameter settings

Item	Description
Setting order	Displays the order in which parameters will be configured for each server.
Server name	Displays the server name.
L-Platform name	Displays the L-Platform name.
Tenant name	Displays the tenant name.
Product name	Displays the software product name.
Version	Displays the software version.
Parameter information name	Displays the parameter information name to be set. Details of the parameters to be configured can be confirmed by displaying the Check Parameter Information window from the link.

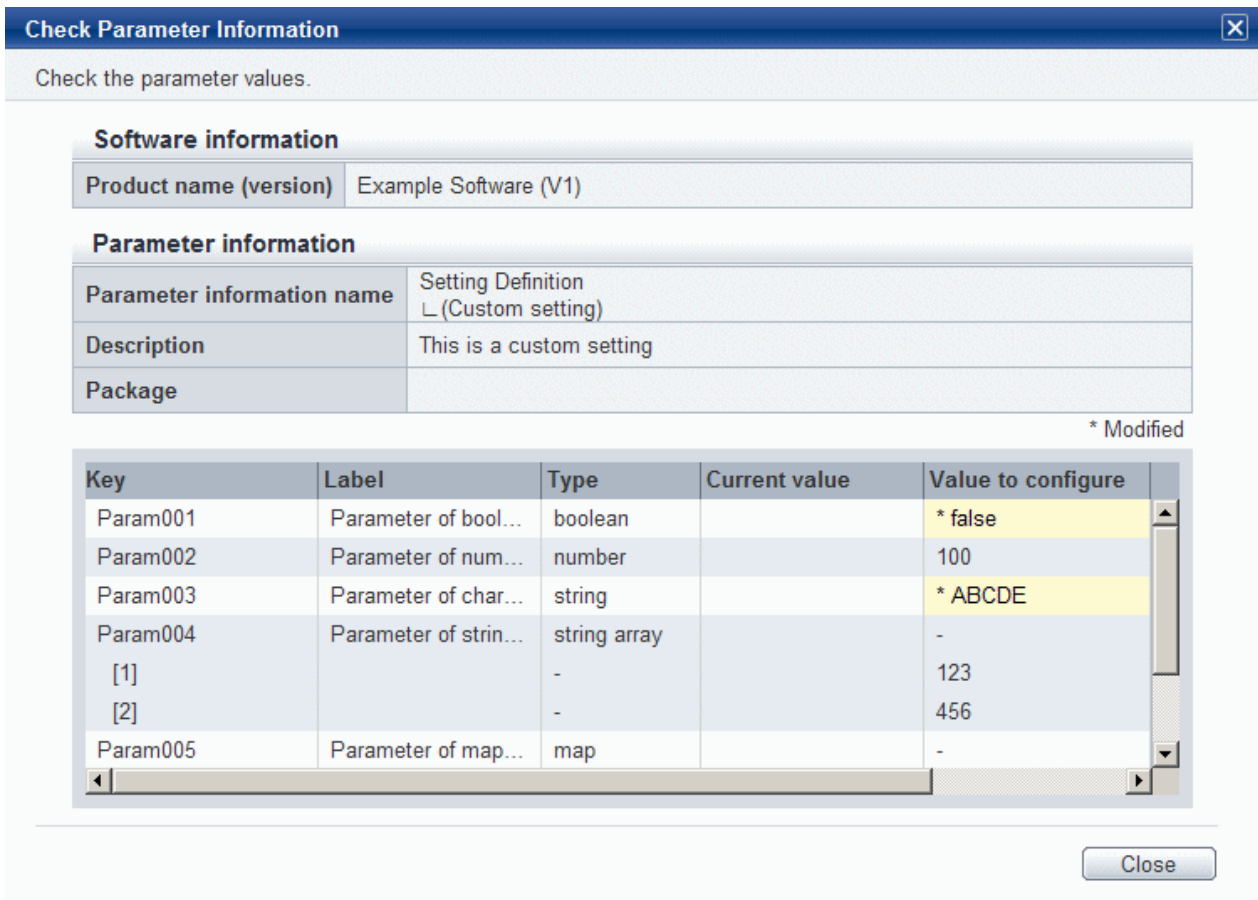
Operation buttons

Operation button	Description
Download CSV file	Outputs information displayed in Parameter settings to a file in CSV format.
Back	Returns to the Execution Method window.
Execute	Executes the parameter setting.
Cancel	Closes the Parameter Settings wizard.

2.5.8 Checking Parameter Information

Perform the following operations to display the **Check Parameter Information** window.

- Click a **Parameter information name** link in the list of parameter settings in the **Confirm** window.



Operation method

Software information

Item	Description
Product name (version)	Displays the product name and version.

Parameter information

Item	Description
Parameter information name	Displays the parameter information name.
Description	Displays a description of the parameter information name.
Package	Displays the package name.
Key	Displays the parameter key.
Label	Displays the parameter label.
Type	Displays the parameter type: <ul style="list-style-type: none"> - string - number - boolean - string array

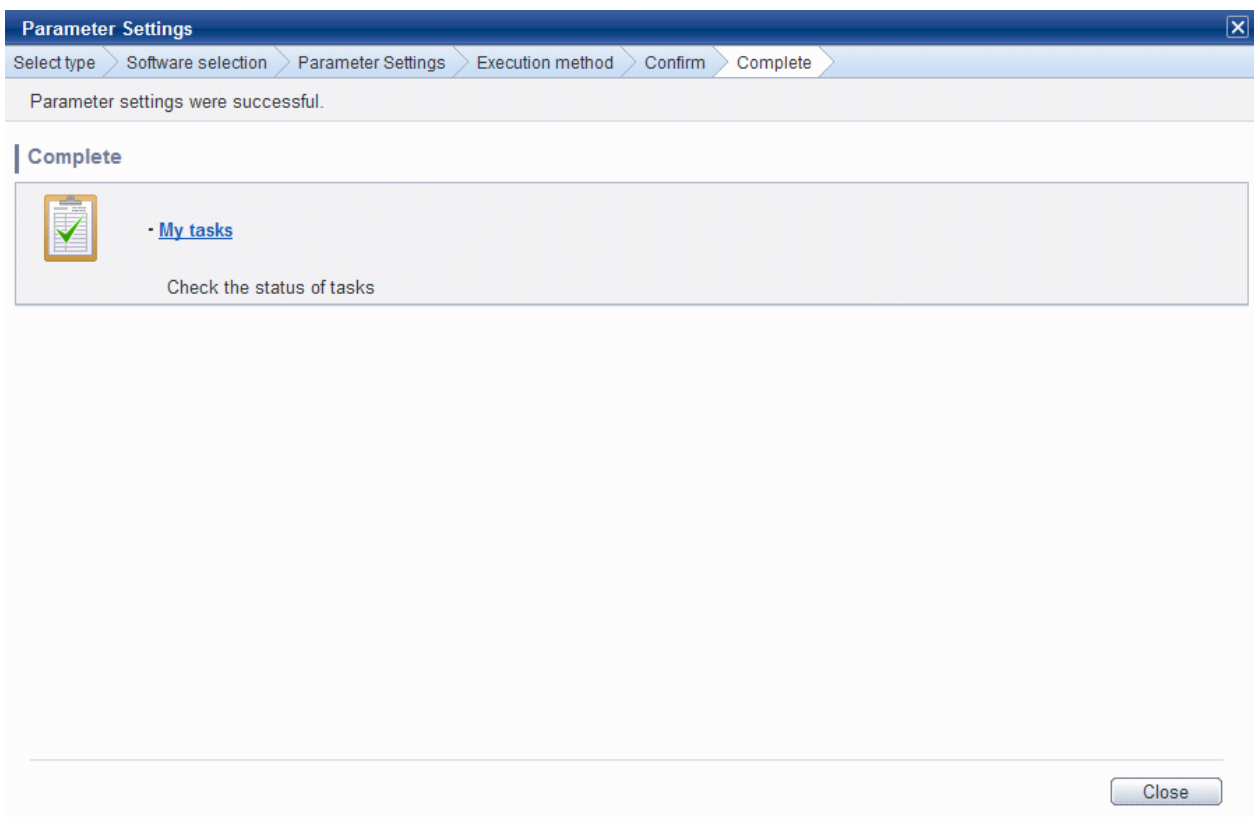
Item	Description
	- map
Current value	Displays the parameter value that was discovered.
Value to configure	Displays the value last set using parameter settings.

Operation buttons

Operation button	Description
Download	Downloads a package.
Close	Closes the Check Parameter Information window.

2.5.9 Complete

Click **Next** in the **Confirm** window to display the **Complete** window.



Operation method

My tasks

Item	Description
My tasks	<p>Moves to the Task management window, where the status of the executed parameters can be checked.</p> <p>The status of the parameter setting that was executed can also be checked by using the job information management command. Refer to "Job Information Management Command" in the <i>Reference Guide</i> for details.</p>

Operation button

Operation button	Description
Close	Closes the Parameter Settings wizard.

2.6 Script Execution Wizard

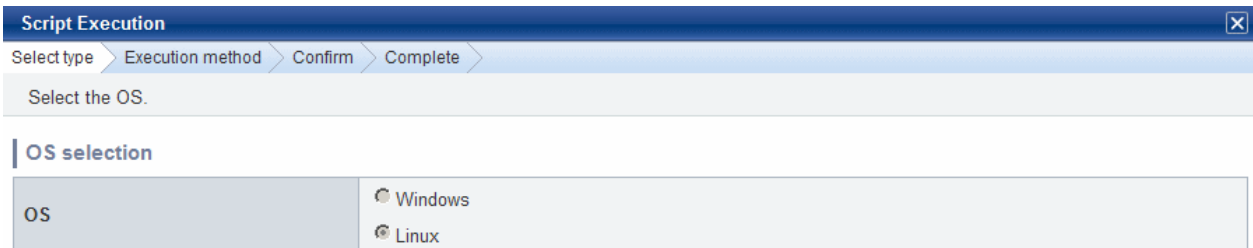
This wizard configures the settings for running scripts on servers.

Display method

1. Click **Script execution** button in the window below:
 - **Server list** window
2. The script execution settings and checks listed below are carried out in wizard format:
 - a. Select the OS of the server on which the script will be run
 - b. Configure how the scripts will be run
 - c. Check the settings
 - d. Complete

2.6.1 OS Selection

To display the **Select type** window in the **Script Execution** wizard, use the checkboxes in the **Server list** window to select a server, and then click **Script execution** button.



Operation method

OS Selection

Select the OS of the server on which the scripts will be run.

Item	Description
OS	<p>Select one of the following operating systems for the server on which the scripts are to be executed:</p> <ul style="list-style-type: none"> - Windows - Linux <p>If only Windows servers or Linux servers have been selected, the radio buttons will be grayed out so that they cannot be selected.</p>

Operation buttons

Operation button	Description
Next	Moves to the Execution Method window.
Cancel	Closes the Script Execution wizard.

2.6.2 Execution Method

Click **Next** in the **Select type** window to display the **Execution Method** window.

The screenshot shows the 'Script Execution' wizard window with the 'Execution method' step selected. The window title is 'Script Execution' and it has a close button (X) in the top right corner. Below the title bar, there are four steps: 'Select type', 'Execution method', 'Confirm', and 'Complete', with 'Execution method' being the active step. The main content area is titled 'Enter execution method' and contains the following fields:

- Schedule:** Radio buttons for 'Immediately' (selected) and 'Specific date and time'. The 'Specific date and time' option has input fields for 'yyyy-mm-dd', '00', and '00'.
- Script:** A text input field with a 'Browse...' button next to it.
- If an error occurs:** Radio buttons for 'Confirm' (selected) and 'Continue'.
- Restart operating system after execution:** Radio buttons for 'Yes' and 'No' (selected).

At the bottom right of the window, there are three buttons: 'Back', 'Next', and 'Cancel'.

Operation method

Execution method input

Item	Description
Schedule	<p>Specify a schedule.</p> <ul style="list-style-type: none"> - Immediately: Select this option to immediately execute processing when the settings in the wizard are complete.

Item	Description
	<ul style="list-style-type: none"> - Specific date and time: Specify the date and time when the processing is to be executed. Specify a date and time that is later than the current date and time on the admin server.
Script	<p>Specify the scripts to be executed, as well as the behavior if an error occurs during script execution.</p> <p>Create the scripts registered here so that they output a return value of "0" to indicate normal completion and a return value other than "0" to indicate an error.</p> <p>For a script to be registered, specify the full path to the file that is stored on the local machine where the browser is running.</p> <ul style="list-style-type: none"> - Confirm: If an error occurs, the user can select the appropriate script processing (such as "retry", "continue processing", or "cancel processing") from the Task management window or by using the job information management command. Refer to "Chapter 4 Task Management" for information on the Task management window. Refer to "Job Information Management Command" in the <i>Reference Guide</i> for information on the command. - Continue: Continue processing even if an error occurs.
Restart operating system after execution	<p>Select whether to restart the server after the script has been executed.</p> <ul style="list-style-type: none"> - Yes: Restart server. - No: Do not restart server.

Operation buttons

Operation button	Description
Back	Returns to the Select type window.
Next	Moves to the confirmation window.
Cancel	Closes the Script Execution wizard.

2.6.3 Confirm

Click **Next** in the **Execution Method** window to display the **Confirm** window.

Check the settings that have been entered.

Script Execution [X]

Select type > Execution method > **Confirm** > Complete

Check the execution details of the script.

Confirm

Execution method

Schedule	Immediately	
Script	backup_script.bat	If an error occurs: Confirm
Restart operating system after execution	No	

Server Information

Server name	L-Platform name	Tenant name
BIS-MNG-DB01(VJ0BKNN7GW0001)	LP-OSK-10001	Osaka Office(OSAKA)

Download CSV file Back Execute Cancel

Operation method

Server information

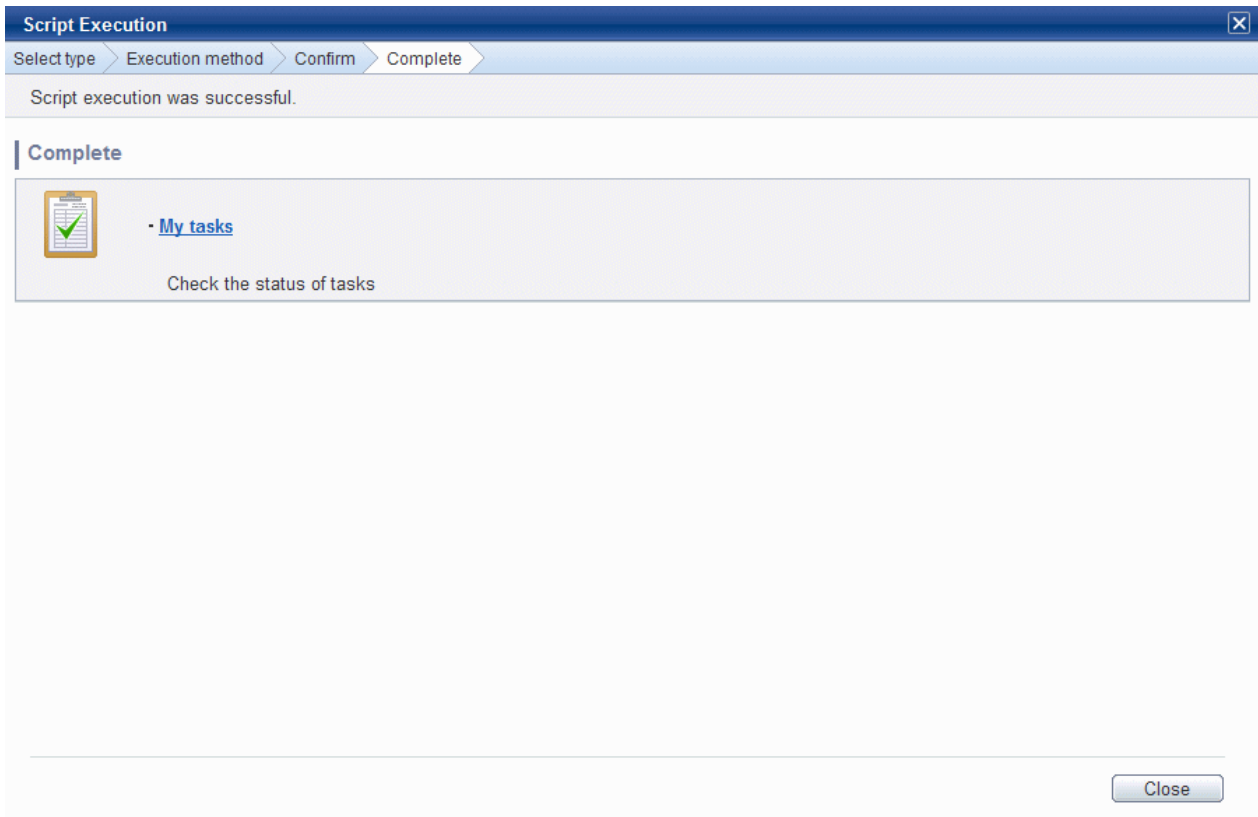
Item	Description
Server name	Displays the server name.
L-Platform name	Displays the L-Platform name.
Tenant name	Displays the tenant name.

Operation buttons

Operation button	Description
Download CSV file	Outputs information displayed in Server information to a file in CSV format.
Back	Returns to the Execution Method window.
Execute	Executes a script.
Cancel	Closes the Script Execution wizard.

2.6.4 Complete

Click **Execute** in the **Confirm** window to display the **Complete** window.



Operation method

My tasks

Item	Description
My tasks	Moves to the Task management window, where the status of script execution can be checked. The status of script execution can also be checked by using the job information management command. Refer to "Job Information Management Command" in the <i>Reference Guide</i> for details.

Operation button

Operation button	Description
Close	Closes the Script Execution wizard.

2.7 Maintenance

The **Maintenance** window provides the following functions:

- **View CI**

This window displays the relationships between configuration items using a tree, as well as the details of configuration items. It is also used to search for configuration items based on the specified conditions.

- **Register CI**

This window is used to register new configuration items in the CMDB.

- **Update/delete CI**

This window is used to update or delete configuration items that have already been registered in the CMDB.

- **Import CI**

This window is used to register configuration items in the CMDB via a file.

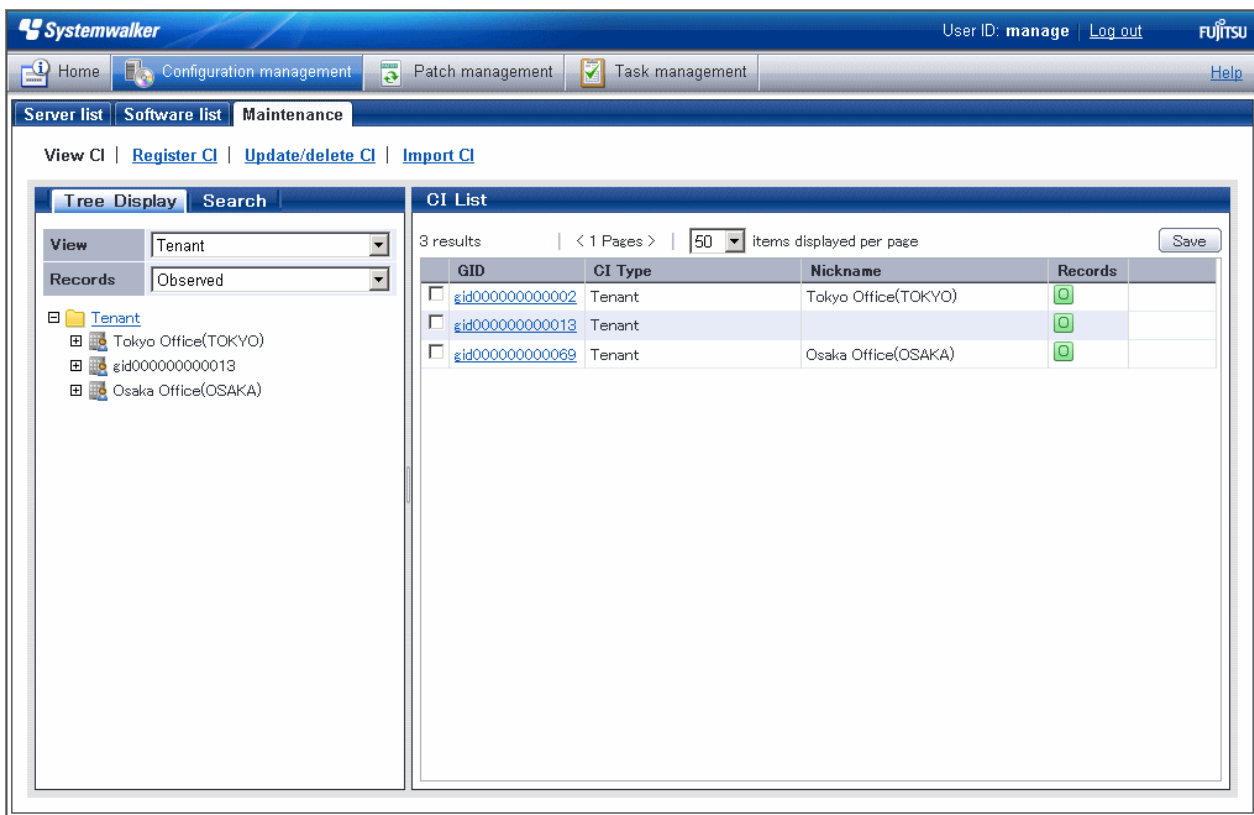
2.7.1 View CI

2.7.1.1 Displaying a Tree of Configuration Items

Display method

1. Click the **Maintenance** tab in the **Configuration management** window.
The **View CI** window will be displayed.
2. Click the **Tree Display** tab.

Summary information about configuration items is displayed in the **CI List** in the **View CI** window. Also, detailed information about a configuration item can be displayed by clicking the configuration item in the list.



Operation method

Item	Description	
Tree Display tab (Displays the relationships between configuration items using a tree.)	View	Pull-down list box used to select the tree model for the CIs to be displayed.
	Records	Pull-down list box used to select the record type for the configuration items to be manipulated. There are three record types: Expected , Observed , and Catalog .
List display (Left pane)	Tree display	Displays folders representing the types of configuration items and trees of configuration items. The configuration items associated with

Item		Description
		a particular configuration item (where there is a link) can be traced using the tree.
CI List (Displays a list of the configuration items in the folder selected in the tree. This list is displayed when the following item is selected in the View pull-down list box. Tenant)	GID	Displays the GIDs of the configuration items. A "GID" is a unique ID for configuration management items. The list can be sorted by GIDs by clicking the GID column header. Clicking a GID link opens a window displaying detailed information about the corresponding configuration item.
	CI Type	Displays the types of the configuration items. The list can be sorted by CI types by clicking the CI Type column header.
	Nickname	Displays the nicknames of the configuration items. The list can be sorted by nicknames by clicking the Nickname column header.
	Records	Displays the records held by the configuration items. It displays "O" (observed record), "E" (expected record), or "C" (catalog).
	items displayed per page	Specifies the number of configuration items to be displayed in the list. If there are more configuration items than the specified number, those items not displayed can be displayed by clicking the > link. To go back, click the < link.
	Save button	Saves the configuration items selected using checkboxes to a file.
CI List (Displays a list of the configuration items in the folder selected in the tree. This list is displayed when the following item is selected in the View pull-down list box: VM Host)	VM Host	Displays the VM hosts. The list can be sorted by VM hosts by clicking the VM Host column header.
	IP address	Displays the IP addresses. The list can be sorted by IP addresses by clicking the IP address column header.
	Number of VMs	Displays the number of VMs. The list can be sorted by the number of VMs by clicking the Number of VMs column header.
	VM Type	Displays the VM types. The list can be sorted by VM types by clicking the VM Type column header.
	items displayed per page	Specifies the number of configuration items to be displayed in the list. If there are more configuration items than the specified number, those items not displayed can be displayed by clicking the > link. To go back, click the < link.
	Save button	Saves the configuration items selected using checkboxes to an XML file. <ul style="list-style-type: none"> - Save selected search results: Saves only the configuration items selected by checkboxes to an XML file. - Save all search results: Saves all of the configuration items displayed in the CI list to an XML file.

The method for displaying a list of configuration items from the tree is as follows:

1. Click the **Tree Display** tab in the configuration management window.
2. Select the desired configuration item tree model from the **View** pull-down list box.

Select the tree model for the CIs to be displayed. Configuration items associated with the selected configuration item in terms of the selected perspective will be displayed in tree format.

The configuration item tree models that can be displayed are as follows:

- **Tenant**

Displays the tenant and the L-Platforms and L-Servers currently used by the tenant.

- **VM Host**

Displays a list of VM hosts.

3. Select the type of record to be displayed from the **Records** pull-down list box.
4. Click the + buttons in the tree to display the configuration item and the other configuration items associated with the target configuration item.
5. Select a folder to display a list of configuration items in the **CI List**.

2.7.1.2 Searching Configuration Items

Display method

1. Click the **Maintenance** tab in the **Configuration management** window.
The **View CI** window will be displayed.
2. Click the **Search** tab.

Operation method

Item		Description
Search tab (Used to specify the search conditions for the configuration item search)	CI Type	Pull-down list box used to select the type of configuration item to be searched for.
	Records	Pull-down list box used to select the record type for the configuration items to be searched. There are three record types: Expected , Observed , and Catalog .
	All Clear button	Initializes the settings for the type of configuration item to be searched for and the filter conditions.
	Search button	Performs searches based on the specified type of configuration item to be searched for and the specified filter conditions.
	The Add button for attribute-based conditions	Sets the conditions for filtering results based on the attribute values of configuration items. If multiple attribute values have been specified, searches can be performed by linking the conditions with a logical AND or a logical OR.
	The Add button for conditions based on related configuration items	Specifies the conditions for filtering results based on the configuration items associated with the target configuration item. If multiple attribute values have been specified, searches can be performed by linking the conditions with a logical AND or a logical OR.
CI List (Displays a list of configuration items as the search results.)	GID	Displays the GIDs of the configuration items. A "GID" is a unique ID for configuration management items. The list can be sorted by GIDs by clicking the GID column header. Clicking a GID link opens a window displaying detailed information about the corresponding configuration item.
	CI Type	Displays the types of the configuration items. The list can be sorted by CI types by clicking the CI Type column header.
	Nickname	Displays the nicknames of the configuration items. The list can be sorted by nicknames by clicking the Nickname column header.
	Records	Displays the records held by the configuration items. It displays "O" (observed record), "E" (expected record), or "C" (catalog).
	items displayed per page	Specifies the number of configuration items to be displayed in the list. If there are more configuration items than the specified

Item		Description
		number, those items not displayed can be displayed by clicking the > link. To go back, click the < link.
	Save button	Saves the configuration items selected using checkboxes to an XML file. - Save selected search results: Saves only the configuration items selected by checkboxes to an XML file. - Save all search results: Saves all of the configuration items displayed in the CI list to an XML file.

2.7.1.3 Displaying Details

Display method

1. Click the **Maintenance** tab in the **Configuration management** window.
The **View CI** window will be displayed.
2. Click the **Tree Display** tab or the **Search** tab.
3. The detailed display window is displayed when the link for a GID in the **CI List** of either the **Tree Display** window or the **Search** window is clicked.

Operation method

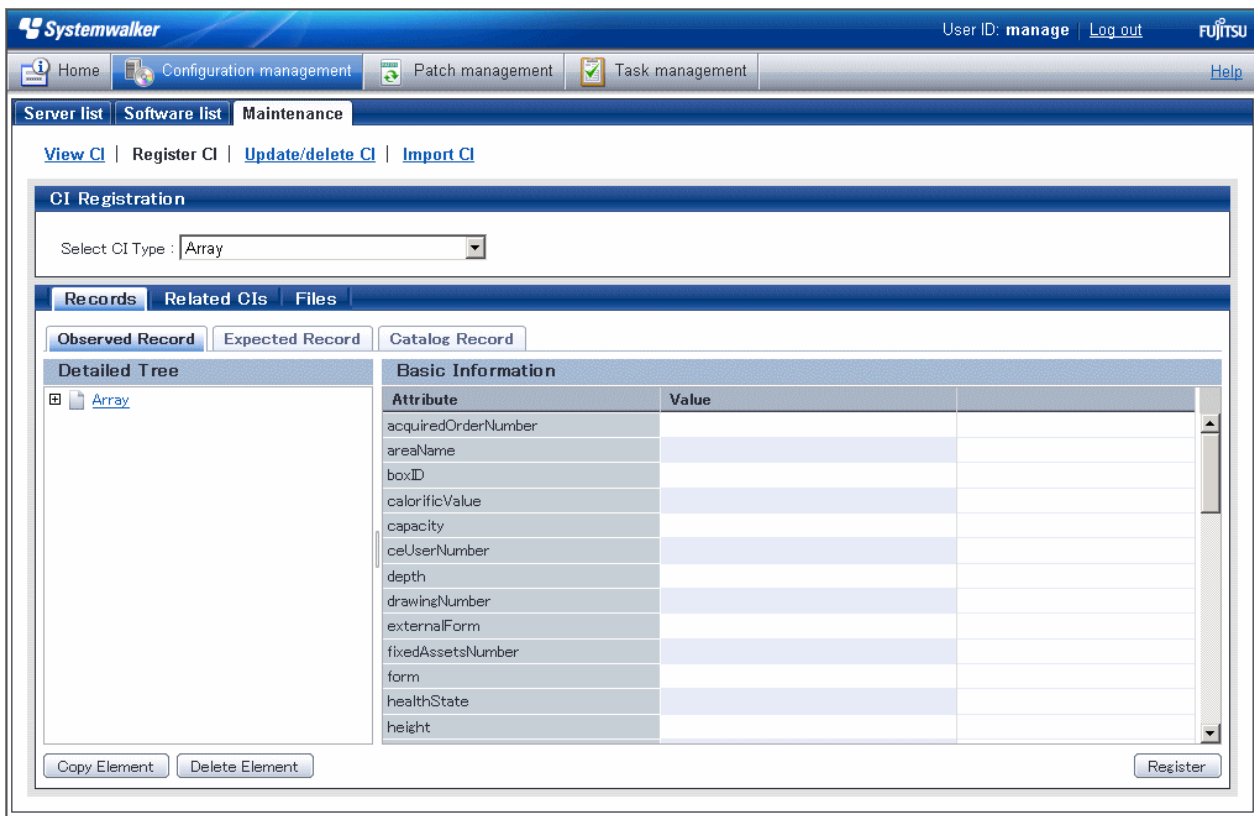
Item		Description	
Selected Information	GID	Displays the GID of the selected configuration item.	
	CI Type	Displays the CI type of the selected configuration item.	
	Nickname	Displays the nickname of the selected configuration item.	
	Records	Displays the record type of the selected configuration item. There are three record types: Expected , Observed , and Catalog .	
Records tab (Displays information about expected, observed or catalog records)	Detailed Tree		
	Basic Information	Attribute	Displays the names of the attributes. The list can be sorted by attribute names by clicking the Attribute column header.
		Value	Displays the values of the attributes. The list can be sorted by attribute values by clicking the Value column header.
Related CIs tab (Displays a list of the configuration items that are related to the configuration item for which the details are being displayed.)	GID		
	CI Type		
	Nickname		
	Records		
	Direction		

Item		Description
		be sorted by the direction of the relation by clicking the Direction column header.
Files tab (Displays a list of the files held by the configuration item for which the details are being displayed.)	File Name	Displays the names of the files. The list can be sorted by file names by clicking the File Name column header.
	Nickname	Displays the nicknames of the files. The list can be sorted by nicknames by clicking the Nickname column header.
	Annotation	Displays the comments for the files. The list can be sorted by annotations by clicking the Annotation column header.
	File Size	Displays the size of each file. The list can be sorted by file size by clicking the File Size column header.
	Last Updated	Displays the date and time when the file was last updated. The list can be sorted by last update date/time by clicking the Last Updated column header.
	File ID	Displays the IDs of the files. The list can be sorted by file IDs by clicking the File ID column header.
	Version	Displays the version names of the files. The list can be sorted by version names by clicking the Version column header.
	Hash value	Displays the hash values for the files. The list can be sorted by hash values by clicking the Hash value column header.
Close button		Closes the window.

2.7.2 Registering Configuration Items

Display method

1. Click the **Maintenance** tab in the **Configuration management** window.
2. Select the **Register CI** link.



Operation method

Item		Description
Register CI	Select CI Type	Pull-down list box used to select the CI type of the configuration items to be registered.
Records tab (Displays expected, observed and catalog information)	Detailed Tree	A tree of elements that make up the configuration item. When an element is selected, the attribute values for the element are displayed in the Basic Information section.
	Basic Information	<p>Attribute</p> <p>Displays the names of the attributes. The list can be sorted by attribute names by clicking the Attribute column header.</p> <p>Values must be entered for the following attributes of each CI type:</p> <ul style="list-style-type: none"> - id - nickname (if this attribute exists) <p>The value of the id attribute must be unique within each CI type. If a configuration item has been registered by specifying an existing value for the id attribute, the existing configuration item will be updated by overwriting it.</p> <p>For the following CI types, in addition to the above attributes, values must be entered for the attributes below.</p> <ul style="list-style-type: none"> - L-Server: IP Address attribute - InstalledSoftware: productName attribute - InstalledPatch: name attribute

Item		Description
	Value	Displays the values of the attributes. The value of an attribute can be edited by selecting the Value column corresponding to the attribute and then either clicking the column or pressing the Enter key. The list can be sorted by attribute values by clicking the Value column header.
	Copy Element button	Creates a duplicate of the element selected in the Detailed Tree .
	Delete Element button	Deletes the element selected in the Detailed Tree .
Related CIs tab (Displays a list of the configuration items that are related to the configuration item for which the details are being displayed.)	GID	Displays the GIDs of the configuration items. The list can be sorted by GIDs by clicking the GID column header.
	CI Type	Displays the types of the configuration items. The list can be sorted by CI types by clicking the CI Type column header.
	Nickname	Displays the nicknames of the configuration items. The list can be sorted by nicknames by clicking the Nickname column header.
	Records	Displays the records held by the configuration items. It displays "O" (observed record), "E" (expected record), or "C" (catalog).
	Direction	Displays the direction of the relation for the configuration items related to the selected configuration item. The list can be sorted by the direction of the relation by clicking the Direction column header.
	Add button	Associates the configuration item being edited with another configuration item.
	Remove button	Deletes the relationship with the configuration item selected in the list of related configuration items.
Files tab (Displays a list of the files held by the configuration item for which the details are being displayed.)	File Name	Displays the names of the files. The list can be sorted by file names by clicking the File Name column header.
	Nickname	Displays the nicknames of the files. The list can be sorted by nicknames by clicking the Nickname column header.
	Annotation	Displays the annotations for the files. The list can be sorted by annotations by clicking the Annotation column header.
	File Size	Displays the size of each file. The list can be sorted by file size by clicking the File Size column header.
	Last Updated	Displays the date and time when the file was last updated. The list can be sorted by last update date/time by clicking the Last Updated column header.
	File ID	Displays the IDs of the files. The list can be sorted by file IDs by clicking the File ID column header.
	Version	Displays the version names of the files. The list can be sorted by version names by clicking the Version column header.
	Hash value	Displays the hash values for the files. The list can be sorted by hash values by clicking the Hash value column header.
	Add button	Adds a file to the configuration item.
	Remove button	Deletes a file that has been registered with the configuration item.
Register button		Registers the settings with the CMDB.

2.7.3 Update/delete CI

2.7.3.1 Updating Configuration Items

Display method

1. Click the **Maintenance** tab in the **Configuration management** window.
2. Select the **Update/delete CI** link.
3. Click the **GID** link for the configuration item to be edited in the **CI List**.

Operation method

Item		Description
Selected Information	GID	Displays the GID of the selected configuration item.
	CI Type	Displays the CI type of the selected configuration item.
	Nickname	Displays the nickname of the selected configuration item.
	Records	Displays the record type of the selected configuration item. There are three record types: Expected , Observed , and Catalog .
Records tab (Displays expected, observed and catalog information)	Detailed Tree	A tree of elements that make up the configuration item. When an element is selected, the attribute values for the element are displayed in the Basic Information section.
	Basic Information	Attribute Displays the names of the attributes. The list can be sorted by attribute names by clicking the Attribute column header.

Item		Description
	Value	Displays the values of the attributes. The value of an attribute can be edited by selecting the Value column corresponding to the attribute and then either clicking the column or pressing the Enter key. The list can be sorted by attribute values by clicking the Value column header.
Related CIs tab (Displays a list of the configuration items that are related to the configuration item for which the details are being displayed.)	GID	Displays the GIDs of the configuration items. The list can be sorted by GIDs by clicking the GID column header.
	CI Type	Displays the types of the configuration items. The list can be sorted by CI types by clicking the CI Type column header.
	Nickname	Displays the nicknames of the configuration items. The list can be sorted by nicknames by clicking the Nickname column header.
	Records	Displays the records held by the configuration items. It displays "O" (observed record), "E" (expected record), or "C" (catalog).
Files tab (Displays a list of the files held by the configuration item for which the details are being displayed.)	File Name	Displays the names of the files. The list can be sorted by file names by clicking the File Name column header.
	Nickname	Displays the nicknames of the files. The list can be sorted by nicknames by clicking the Nickname column header.
	Annotation	Displays the comments for the files. The list can be sorted by comments by clicking the Annotation column header.
	File Size	Displays the size of each file. The list can be sorted by file size by clicking the File Size column header.
	Last Updated	Displays the date and time when the file was last updated. The list can be sorted by last update date/time by clicking the Last Updated column header.
	File ID	Displays the IDs of the files. The list can be sorted by file IDs by clicking the File ID column header.
	Version	Displays the version names of the files. The list can be sorted by version names by clicking the Version column header.
	Hash value	Displays the hash values for the files. The list can be sorted by hash values by clicking the Hash value column header.
Close button		Closes the window.



Note

The value for the "ID" attribute

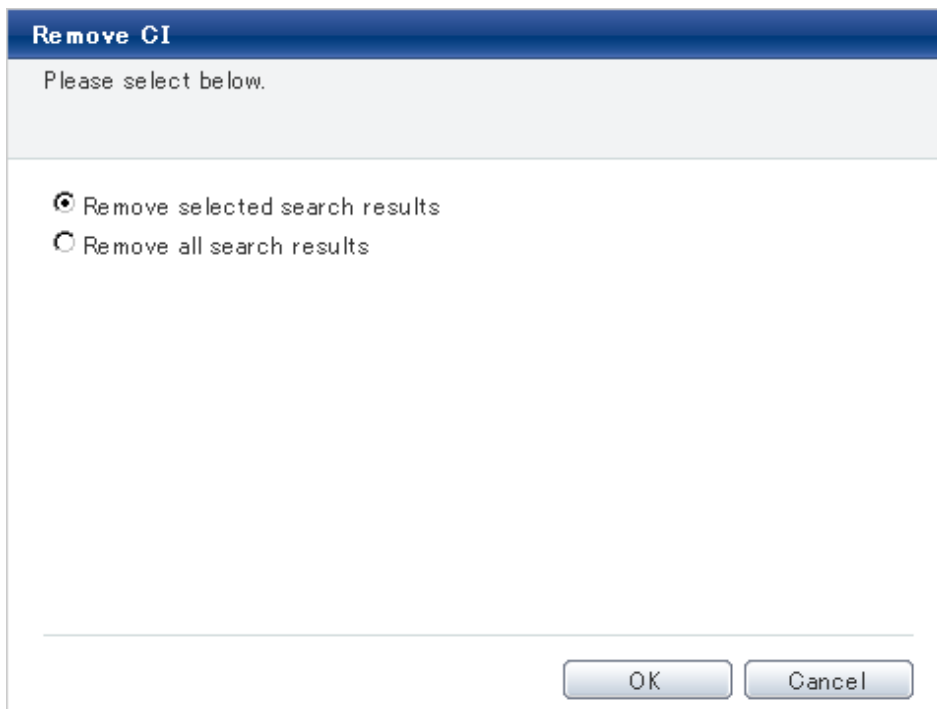
Do not change the value for the "ID" attribute. If the value for the "ID" attribute is changed and then an update operation is performed, a new configuration item will be registered with the new value, and the target configuration item will not be updated.

2.7.3.2 Deleting Configuration Items

Display method

1. Click the **Maintenance** tab in the **Configuration management** window.
2. Select the **Update/delete CI** link.

3. Use the checkboxes to select the configuration items to be deleted from the **CI List**, and then click **Remove**.
The following window will be displayed.

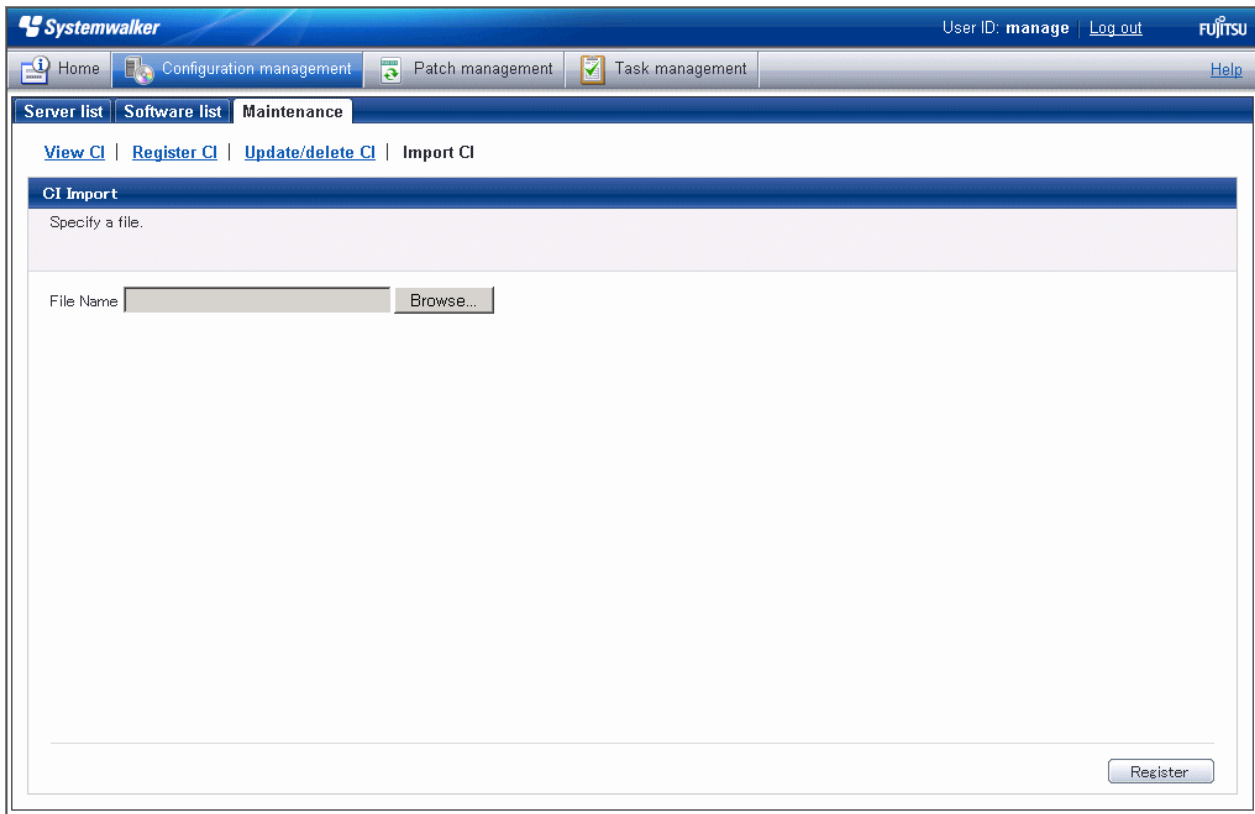


4. Select either of the following values:
 - **Remove selected search results**: Deletes only the configuration items selected using checkboxes.
 - **Remove all search results**: Deletes all of the configuration items displayed in the CI list.
5. Click **OK**.

2.7.4 Importing Configuration Items

Display method

1. Click the **Maintenance** tab in the **Configuration management** window.
2. Select the **Import CI** link.



Operation method

Item		Description
Import CI	Browse button	Specifies an XML file where configuration items have been marked up.
Register button		Registers the content of the specified file with the CMDB.

Chapter 3 Patch Management

The **Patch management** window contains the following tabs:

- **Summary view**

This tab displays the number of servers with unapplied patches, and the number of new patches for each operating system and patch type.

- **Windows patch list**

This tab displays a list of Windows patches. It can be used to reference detailed information about each individual patch, as well as the application status of each patch. It is also possible to display information that has been filtered by specifying particular conditions.

- **Linux patch list**

This tab displays a list of Linux patches. It can be used to reference detailed information about each individual patch, as well as the application status of each patch. It is also possible to display information that has been filtered by specifying particular conditions.

- **Fujitsu middleware patch list**

This tab displays a list of Fujitsu middleware patches. It can be used to reference detailed information about each individual patch, as well as the application status of each patch. It is also possible to display information that has been filtered by specifying particular conditions.

- **Patch Application wizard**

This wizard allows the user to apply patches by first selecting the required patches. Users can then select the target servers, and specify the application method.

3.1 Summary View

Display method

1. Log in to the management console.
2. Use either of the following methods to display the **Summary** window:
 - a. Select **Patch management** from the menu in the management console.
 - b. Click the **Patch management** link in the **Home** window.

The screenshot shows the Systemwalker Patch management interface. The top navigation bar includes 'Home', 'Configuration management', 'Patch management', and 'Task management'. The user is logged in as 'manage'. The main content area is divided into two sections: 'Servers with unapplied patches' and 'New patches'.

Servers with unapplied patches: This section displays a warning icon and the text: 'There are servers where patches have not been applied. Apply patches to these servers.' Below this, there are tabs for 'Windows servers' and 'Linux servers', and a 'Tenant' dropdown menu set to 'All'. The data is summarized as follows:

Category	Required	Recommended
OS patches (Windows servers)	8 server(s)	8 server(s)
Fujitsu MW patches (Windows servers)	2 server(s)	1 server(s)

New patches: This section displays a 'New' patch icon and the text: 'New patches have been released.' Below this, there are tabs for 'Windows patches' and 'Linux patches', and a 'Period' dropdown menu set to '2012-05-19 to 2012-06-18'. The data is summarized as follows:

Category	Required	Recommended
OS patches (Windows patches)	8 patch(es)	4 patch(es)
Fujitsu MW patches (Windows patches)	8 patch(es)	4 patch(es)

Operation method

Total number of servers with unapplied patches

The number of servers indicates the number of servers with unapplied patches.

- **OS patches** and **Fujitsu middleware patches** in the **Windows servers** tab
 - Number of servers where required patches have not been applied
 - Number of servers where recommended patches have not been applied
- **OS patches** in the **Linux servers** tab
 - Number of servers with unapplied patches

For Windows patches and Fujitsu middleware patches, the number of servers with unapplied patches is counted separately for "Required" patches and "Recommended" patches.

For Linux patches, the number of servers with unapplied patches is counted.

If an infrastructure administrator logs in, the total number of applicable servers collected from all managed servers will be displayed. If a tenant administrator or tenant user logs in, the results will be filtered so that only the number of applicable servers collected from the tenancies or servers managed by the tenant administrator or tenant user will be displayed.

If an infrastructure administrator logs in, the results displayed can also be filtered by tenants.

The **List of Servers with Unapplied Patches** window is displayed when the **OS patches** or **Fujitsu middleware patches** link or the link for each number (of servers with unapplied patches) is clicked.



Note

Patches with prerequisite patches

For Windows patches, if a patch has a prerequisite patch and neither the patch nor the prerequisite patch have been applied to a business server, the business server may not be counted as a server with unapplied patches, even though it has the same environment (the same operating system) as other business servers.

This is because when the patch is released by WSUS it is managed as an "applicable" patch but when a "check for update programs" operation is performed on the business server the patch will be managed as "not applicable" if the prerequisite patch has not been applied.

Systemwalker Software Configuration Manager does not handle "not applicable" patches as unapplied patches when counting the number of servers with unapplied patches.



Note

Conditions under which servers are counted as servers with unapplied patches

The conditions under which servers are counted as servers with unapplied patches differ with Windows patches, Linux patches, and Fujitsu middleware patches. These conditions are explained separately as below:

- Number of servers with unapplied Windows patches

The number of servers with unapplied Windows patches is the number of servers where the patches authorized by WSUS have not been applied.

- Number of servers with unapplied Linux patches

The number of servers with unapplied Linux patches is the number of servers where the patches registered with the yum repository server and have been defined as the management target have not been applied.

- Number of servers with unapplied Fujitsu middleware patches

The number of servers with unapplied Fujitsu middleware patches is the number of servers where the Fujitsu middleware patches registered using `swcfmg_fjmwpatch_update` (Fujitsu middleware patch registration command) have not been applied.

Number of new patches

- **OS patches** in the **Windows patches** tab

- Number of new required patches
- Number of new recommended patches

The patches that have been newly released by the operating system vendor during the **Period** displayed are output as the number of new patches. The **Period** is the last one month, counting backwards from the day when the user logged in.

- **Fujitsu middleware patches**

- Number of new required patches
- Number of new recommended patches

The patches that have been registered with Systemwalker Software Configuration Manager during the **Period** displayed are output as the number of new patches. The **Period** is the last one month, counting backwards from the day when the user logged in.

- **OS patches** in the **Linux patches** tab

- Number of new patches

The RPM packages that have been defined as the management target for Systemwalker Software Configuration Manager and registered with yum during the **Period** displayed are output as the number of new patches. The **Period** is the last one month, counting backwards from the day when the user logged in.

The **List of New Patches** window is displayed when the **OS patches** or **Fujitsu middleware patches** link or the link for each number is clicked.


3.1.1 List of Servers with Unapplied Patches

Display method







1. Click on the links in the **Servers with unapplied patches** section in the **Summary view** window for **Patch management**.
The **List of Servers with Unapplied Patches** window will be displayed.

List of Servers with Unapplied Patches ✕








Click a server name to open the Server Details window. Select a row to display a list of unapplied patches.



Windows servers L-Platform: | 1 - 6 of 8 items | ⏪ ⏩ 1/2page(s) ⏪ ⏩

Server name	L-Platform name	Tenant name	OS
 w2008r2_52(V2J5...	w2008r2_52	Osaka Office(OSAKA)	Windows Server 2008...
 w2008r2_53(VDU...	win2008r2en64_0618T...	Osaka Office(OSAKA)	Windows Server 2008...
 w2008r2_54(V1I4...	win2008r2en64_0618T...	Tokyo Office(TOKYO)	Windows Server 2008...
 w2008r2_58(V3K6...	win2008r2en64_0618T...	Tokyo Office(TOKYO)	Windows Server 2008...
 win2008r2en64_06...	win2008r2en64_0618T...	Tokyo Office(TOKYO)	Windows Server 2008...
 win2008r2en64_06...	win2008r2en64_0618T...	Tokyo Office(TOKYO)	Windows Server 2008...

Unapplied OS patches 1 - 7 of 35 items | ⏪ ⏩ 1/5page(s) ⏪ ⏩

Patch ID	Class	Patch type	Overview	Release d...
 KB980218	Required	Security Upda...	Security Update for Windows...	2010-06-08
 KB980195	Required	Security Upda...	Cumulative Security Update f...	2010-06-08
 KB979916	Required	Security Upda...	Microsoft .NET Framework 3...	2010-06-08
 KB979482	Required	Security Upda...	Security Update for Windows...	2010-06-08
 KB981793	Recommended	Update Rollups	Update for Windows Server 2...	2010-05-25
 KB978542	Required	Security Upda...	Security Update for Windows...	2010-05-11
 KB981392	Recommended	Feature Packs	Update for Best Practices An...	2010-04-27

Patch application...
Close

Operation method

Server list

A list of the servers with unapplied patches is displayed in the top section of the window.

Item	Description
Server name	Displays the server names. Clicking a server name link displays the Server Details window.
L-Platform name	Displays the L-Platform names.
Tenant name	Displays the tenant names.
OS	Displays the operating system names.

List of unapplied patches

When a server is selected from the list of servers in the top section of the window, a list of the patches that have not been applied to that server is displayed in the bottom section.

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Table 3.1 Windows patches

Item	Description
Patch ID	Displays the patch IDs. Clicking a patch ID link displays the Patch Details window.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the patch management policy settings - Recommended: Patches that are specified as "Recommended" in the patch management policy settings
Patch type	Displays the patch types. (This indicates the classification of updates, which represents the WSUS update program type.) <ul style="list-style-type: none"> - Security Updates - Critical Updates - Feature Packs - Service Packs - Tools - Drivers - Updates - Update Rollups - Definition Updates
Overview	Displays an overview (or title) of each patch.
Release date	Displays the date when the vendor (Microsoft) released the patch.

Table 3.2 Linux patches

Item	Description
Package name	Displays the names of the RPM packages. Clicking a package name link displays the Patch Details window.
Version	Displays the versions of the packages.
Release	Displays the release numbers of the packages.
Architecture	Displays the architecture for each package.
Overview	Displays an overview of each package.
Release date	Displays the date when the package information was registered with Systemwalker Software Configuration Manager.

Table 3.3 Fujitsu middleware patches

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings

Item	Description
	- Recommended: Patches that are specified as "Recommended" in the operation policy settings
Importance	Displays the importance of each patch. - Security - Important - Recommended
Update type	Displays the update types of the patches. - Urgent
Product name	Displays the product names.
OS	Displays the operating systems (platforms).
Release date	Displays the date when the patch information was registered with Systemwalker Software Configuration Manager.

Operation buttons

The following operations can be performed from the **List of Servers with Unapplied Patches** window.

Operation buttons	Description
Patch application	Displays the Patch Application wizard, enabling the user to configure patch distribution and patch application for a specified server.
Close	Closes the window.

3.1.2 List of New Patches

Display method

1. Click on the links in the **Summary view** window for **Patch management**.

The **List of New Patches** window will be displayed.

List of New Patches
✕

Click a patch ID to open the Patch Details window. Select a row to display a list of servers with unapplied patches.

OS patches(Windows)

Patch ID	Class	Product n...	Patch type	Overview	Release d...
KB2709715	Required	Windows...	Security U...	Security Update for W...	2012-06-12
KB2709630	Recommended	Windows...	Updates	Update for Windows...	2012-06-12
KB2709162	Required	Windows...	Security U...	Security Update for W...	2012-06-12
KB2703157	Recommended	Windows...	Updates	Update for Windows...	2012-06-12
KB2699988	Required	Windows...	Security U...	Cumulative Security U...	2012-06-12
KB2699779	Recommended	Windows...	Updates	Update for Windows...	2012-06-12

Servers with unapplied patches

1 - 6 of 6 items

1/1 page(s)

Server name	L-Platform name	Tenant name	OS
w2008r2_54(V114...	win2008r2en64_0618T...	Tokyo Office(TOKYO)	Windows Server 2008...
w2008r2_58(V3K6...	win2008r2en64_0618T...	Tokyo Office(TOKYO)	Windows Server 2008...
win2008r2en64_06...	win2008r2en64_0618T...	Tokyo Office(TOKYO)	Windows Server 2008...
win2008r2en64_06...	win2008r2en64_0618T...	Tokyo Office(TOKYO)	Windows Server 2008...
win2008r2en64_06...	win2008r2en64_0618T...	Tokyo Office(TOKYO)	Windows Server 2008...
win2008r2en64_cl...	win2008r2en64_clone	Tokyo Office(TOKYO)	Windows Server 2008...

Operation method

List of new patches

The list of new patches will be displayed in the top section of the window.

Table 3.4 Windows patches

Item	Description
Patch ID	Displays the patch IDs. Clicking a patch ID link displays the Patch Details window.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the patch management policy settings - Recommended: Patches that are specified as "Recommended" in the patch management policy settings
Product name	Displays the product name (operating system name) corresponding to each patch.
Patch type	Displays the patch types. (This indicates the classification of updates, which represents the WSUS update program type.) <ul style="list-style-type: none"> - Security Updates - Critical Updates

Item	Description
	<ul style="list-style-type: none"> - Feature Packs - Service Packs - Tools - Drivers - Updates - Update Rollups - Definition Updates
Overview	Displays an overview (or title) of each patch.
Release date	Displays the date when the vendor (Microsoft) released the patch.

Table 3.5 Linux patches

Item	Description
Package name	Displays the names of the RPM packages. Clicking a package name link displays the Patch Details window.
Version	Displays the versions of the packages.
Release	Displays the release numbers of the packages.
Architecture	Displays the architecture for each package.
Overview	Displays an overview of each package.
Release date	Displays the date when the package information was registered with Systemwalker Software Configuration Manager.

Table 3.6 Fujitsu middleware patches

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Importance	Displays the importance of each patch. <ul style="list-style-type: none"> - Recommended - Important - Security
Update type	Displays the update types of the patches. <ul style="list-style-type: none"> - Urgent
Product name	Displays the product names.
OS	Displays the operating systems (platforms).
Release date	Displays the release dates of the patches.

List of servers with unapplied patches

When a patch is selected from the list of new patches in the top section of the window, a list of the servers where that patch has not been applied are displayed in the bottom section.

Item	Description
Server name	Displays the server names. Clicking a server name link displays the Server Details window.
L-Platform name	Displays the L-Platform names.
Tenant name	Displays the tenant names.
OS	Displays the operating system names.

Operation buttons

The following operations can be performed from the **List of Servers with Unapplied Patches** window.

Operation button	Description
Patch application	Displays the Patch Application wizard, enabling the user to configure patch distribution and patch application for a specified patch.
Close	Closes the window.

3.2 Patch Management

3.2.1 Patch List

Display method

1. Use either of the following methods to display the patch list:
 - a. Select **Patch management** from the menu in the management console.
 - b. Click the **Patch management** link in the **Home** window.

Patch lists for Windows operating systems, Linux operating systems and Fujitsu middleware can be displayed by selecting each tab.

All of the patches obtained from WSUS are displayed in the list of Windows patches, except for those patches that the infrastructure administrator has not approved on WSUS.

For Linux patches, the patches that have been registered with the yum repository server and have been defined as the management target are displayed. For Fujitsu middleware patches, the patches that have been registered with Systemwalker Software Configuration Manager are displayed.

The number of servers to which each patch has not been applied can also be displayed.

Users with all roles can reference information about all patches. However, if a tenant administrator or tenant user logs in, the results displayed for the number of servers with unapplied patches will be filtered by the tenants or the range of servers that the tenant administrator or tenant user manages.

Systemwalker User ID: manage Log out FUJITSU

Home Configuration management Patch management Task management Help

Summary view Windows patch list Linux patch list Fujitsu middleware patch list

Filter

Patch ID: Class: All Product name: Patch type: All

Overview: Release date: yyyy-mm-dd - yyyy-mm-dd Applied to all: Both

Filter Cancel filter

1 - 13 of 48 items | 1/4 page(s)

<input type="checkbox"/>	Patch ID	Class	Product name	Patch type	Overview	Release...	Unapplied...
<input type="checkbox"/>	KB2709715	Required	Windows Server 2008 R2	Security Updates	Security Update for Window...	2012-06-12	6
<input type="checkbox"/>	KB2709630	Recommended	Windows Server 2008 R2	Updates	Update for Windows Server...	2012-06-12	6
<input type="checkbox"/>	KB2709162	Required	Windows Server 2008 R2	Security Updates	Security Update for Window...	2012-06-12	6
<input type="checkbox"/>	KB2703157	Recommended	Windows Server 2008 R2	Updates	Update for Windows Server...	2012-06-12	6
<input type="checkbox"/>	KB2699988	Required	Windows Server 2008 R2	Security Updates	Cumulative Security Update...	2012-06-12	6
<input type="checkbox"/>	KB2699779	Recommended	Windows Server 2008 R2	Updates	Update for Windows Server...	2012-06-12	6
<input type="checkbox"/>	KB2686830	Required	Windows 7; Windows Serv...	Security Updates	Security Update for Microsof...	2012-06-12	6
<input type="checkbox"/>	KB2685939	Required	Windows Server 2008 R2	Security Updates	Security Update for Window...	2012-06-12	6
<input type="checkbox"/>	KB2677070	Recommended	Windows Server 2008 R2	Updates	Update for Windows Server...	2012-06-12	6
<input type="checkbox"/>	KB2667402	Required	Windows Server 2008 R2	Security Updates	Security Update for Window...	2012-06-12	6
<input type="checkbox"/>	KB2656372	Required	Windows 7; Windows Serv...	Security Updates	Security Update for Microsof...	2012-06-12	6
<input type="checkbox"/>	KB2718704	Required	Windows Server 2008 R2	Critical Updates	Update for Windows Server...	2012-06-03	6
<input type="checkbox"/>	KB2658846	Required	Windows Server 2008 R2	Security Updates	Security Update for Window...	2012-05-08	6

Download CSV file Patch application...

Operation method

Filter search

Specify the conditions for filtering the information in the patch list. The filter conditions shown below can be specified for each patch type. Multiple filter conditions can be specified.

Patch type	Filter conditions
Windows patch list	<ul style="list-style-type: none"> - Patch ID - Class - Product name - Patch type - Overview - Release date - Applied to all
Linux patch list	<ul style="list-style-type: none"> - Package name - Version - Release - Architecture - Overview - Release date - Applied to all
Fujitsu middleware patch list	<ul style="list-style-type: none"> - Patch ID

Patch type	Filter conditions
	<ul style="list-style-type: none"> - Class - Importance - Update type - Product name - OS - Update title - Applied to all - Release date

Display items

The following table shows the items that are displayed in the patch list:

Table 3.7 Windows patch list

Display item	Description
Checkboxes	Specifies the patch to be applied.
Patch ID	Displays the patch IDs. Clicking a patch ID link displays the Patch Details window.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Product name	Displays the product name (operating system name) corresponding to each patch.
Patch type	Displays the patch types. (This indicates the classification of updates, which represents the WSUS update program type.) <ul style="list-style-type: none"> - Security Updates - Critical Updates - Feature Packs - Service Packs - Tools - Drivers - Updates - Update Rollups - Definition Updates
Overview	Displays a title for each patch.
Release date	The date when the vendor (Microsoft) released the patch
Unapplied servers	Displays the number of machines where the patch has not been applied.

Display item	Description
	The number of servers without patches that the infrastructure administrator has not approved on WSUS is not counted. Also, the total number of machines displayed here is only for the machines within the range that can be looked up by the login user.

Table 3.8 Linux patch list

Item	Description
Checkboxes	Specifies the patch to be applied.
Package name	Displays the names of the RPM packages. Clicking a package name link displays the Patch Details window.
Version	Displays the versions of the packages.
Release	Displays the release numbers of the packages.
Architecture	Displays the architecture for each package.
Overview	Displays an overview of each package.
Release date	Displays the date when the package information was registered with Systemwalker Software Configuration Manager.
Unapplied servers	Displays the number of machines where the patch has not been applied. The number of servers with unapplied patches is not counted if these patches have been registered with the yum repository server but have not been defined as the Linux patch management target. Also, the total number of machines displayed here is only for the machines within the range that can be looked up by the login user.

Table 3.9 Fujitsu middleware patch list

Item	Description
Checkboxes	Specifies the patch to be applied.
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Importance	Displays the importance of each patch. <ul style="list-style-type: none"> - Recommended - Important - Security
Update type	Displays the update types of the patches. <ul style="list-style-type: none"> - Urgent
Product name	Displays the product names.
OS	Displays the operating systems (platforms).
Update title	Displays the update titles of the patches.
Release date	Displays the release dates of the patches.

Item	Description
Unapplied servers	Displays the number of machines where the Fujitsu middleware patches registered using <code>swcfmg_fmwpatch_update</code> (Fujitsu middleware patch registration command) have not been applied. Also, the total number of machines displayed here is only for the machines within the range that can be looked up by the login user.

Operation buttons

The following operations can be performed from the patch list window.

Operation button	Description
Download CSV file	Output patch list information in CSV format. If the information displayed has been filtered, only the filtered information will be output.
Patch application	Displays the Patch Application wizard, enabling the user to configure patch distribution and patch application for a specified patch.



Note

Patches with prerequisite patches

For Windows patches, if a patch has a prerequisite patch and neither the patch nor the prerequisite patch have been applied to a business server, the business server may not be counted as a server with unapplied patches, even though it has the same environment (the same operating system) as other business servers.

This is because when the patch is released by WSUS it is managed as an "applicable" patch but when a "check for update programs" operation is performed on the business server the patch will be managed as "not applicable" if the prerequisite patch has not been applied.

Systemwalker Software Configuration Manager does not handle "not applicable" patches as unapplied patches when counting the number of servers with unapplied patches.

3.2.1.1 Patch Details

Display method

1. Use either of the following methods to display the patch details:


- a. Click a patch ID link in the patch list window.
- b. Click a patch ID link in each window.

The **Patch Details** window will be displayed.







The **Patch Details** window shows a description of the patch, and the patch application status.

Patch Details ✕

Check the patch details.



Patch ID	KB2709715
Product name	Windows Server 2008 R2
Overview	Security Update for Windows Server 2008 R2 x64 Edition (KB2709715)
Patch type	Security Updates
Class	Required
Release date	2012-06-12
Details	A security issue has been identified that could allow an authenticated local attacker to compromise your system and gain control over it. You can help protect your system by installing this update from Microsoft. After you install

Server name	L-Platform name	Tenant name	OS
 w2008r2_54(V1I4...	win2008r2en64_0618...	Tokyo Office(TOKYO)	Windows Server 2008...
 w2008r2_58(V3K6...	win2008r2en64_0618...	Tokyo Office(TOKYO)	Windows Server 2008...
 win2008r2en64_0...	win2008r2en64_0618...	Tokyo Office(TOKYO)	Windows Server 2008...
 win2008r2en64_0...	win2008r2en64_0618...	Tokyo Office(TOKYO)	Windows Server 2008...
 win2008r2en64_0...	win2008r2en64_0618...	Tokyo Office(TOKYO)	Windows Server 2008...
 win2008r2en64_cl...	win2008r2en64_clone	Tokyo Office(TOKYO)	Windows Server 2008...

Patch application...
Close

Operation method

Detailed information about the patch

Detailed information about the patch is displayed in the top section of the window.

The following table shows the items that are displayed in the patch list:

Table 3.10 Windows patches

Item	Description
Patch ID	Displays the patch ID.
Product name	Displays the product name (operating system name) corresponding to the patch.
Overview	Displays the patch overview (or for Windows, the title).
Patch type	Displays the patch type. (This indicates the classification of updates, which represents the WSUS update program type.) <ul style="list-style-type: none"> - Security Updates - Critical Updates - Feature Packs - Service Packs - Tools - Drivers

Item	Description
	<ul style="list-style-type: none"> - Updates - Update Rollups - Definition Updates
Class	<p>Displays the classification level of the patch.</p> <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Release date	Displays the date when the vendor (Microsoft) released the patch.
Details	Displays a detailed description of the patch that is provided by the vendor.

Table 3.11 Linux patches

Item	Description
Package name	Displays the name of the package.
Version	Displays the version of the package.
Release	Displays the release number of the package.
Architecture	Displays the architecture for each package.
Release date	Displays the date when the package information was registered with Systemwalker Software Configuration Manager.
Overview	Displays an overview of the package.
Details	Displays a detailed description of the patch that is provided by the vendor.

Table 3.12 Fujitsu middleware patches

Item	Description
Patch ID	Displays the patch ID.
Class	<p>Displays the classification level of the patch.</p> <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Importance	<p>Displays the importance of the patch.</p> <ul style="list-style-type: none"> - Recommended - Important - Security
Update type	<p>Displays the update types of the patch.</p> <ul style="list-style-type: none"> - Urgent
Product name	Displays the product name.
OS	Displays the operating system (platform).
Release date	Displays the release date of the patch.
Update title	Displays the update title of the patch.

Information about patch application

The bottom section of the window displays a list of the servers where the patch has not been applied and a list of the servers where the patch has been applied.

Clicking an **Unapplied** link displays a list of servers with unapplied patches.

Clicking an **Updated** link displays a list of servers with applied patches.

Item	Description
Server name	Displays the server names.
L-Platform name	Displays the L-Platform names.
Tenant name	Displays the tenant names.
OS	Displays the operating system names.

Operation buttons

The following operations can be performed from the **List of Servers with Unapplied Patches** window.

Operation button	Description
Patch application	Displays the Patch Application wizard, enabling the user to configure patch distribution and patch application for a specified patch.
Close	Closes the window.

3.3 Patch Application Wizard

Patch application is set up by first selecting the patches that are to be applied.

Point

The roles of the people who distribute and apply patches

The explanations in this section assume that the roles of the people who distribute and apply patches can be classified as follows:

Infrastructure administrator

- Infrastructure administrators are responsible for patch management (management for WSUS, yum repository servers and the media library).
- Infrastructure administrators do not distribute or apply patches.
- When an error occurs with the patch distribution/application processing, a message may be output to the event log or syslog. If this happens, infrastructure administrators need to check the content of the message and take the necessary action such as reviewing the environment settings.

Tenant administrator

- Tenant administrators use the management console to distribute and apply patches to their tenant's servers.

Tenant user

- Tenant users distribute and apply patches to those servers that they manage themselves.

Dual-role administrator

- Dual-role administrators have the roles of both infrastructure administrators and tenant administrators. When acting as a tenant administrator, a dual-role administrator can distribute and apply patches to the servers in all tenancies.
-

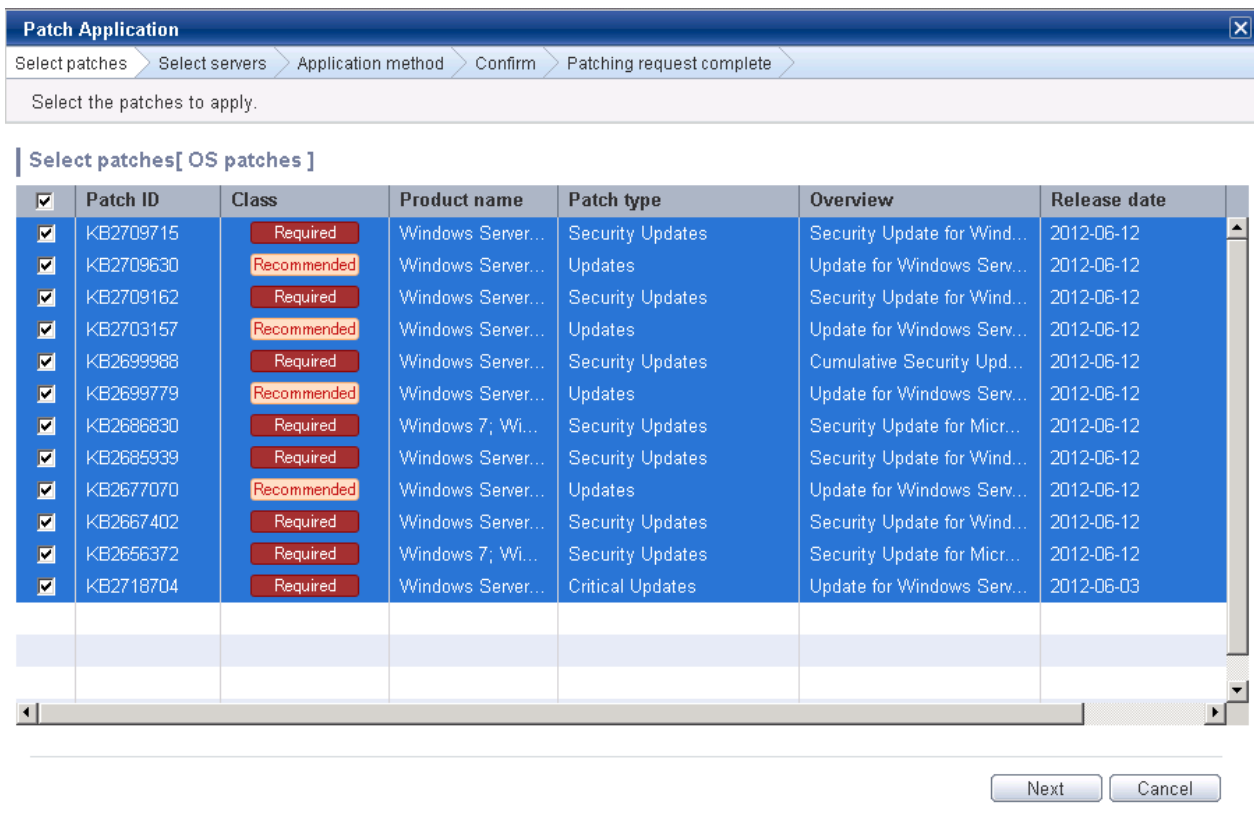
Display method

1. Click the **Patch application** button in one of the following windows:
 - **Patch list** window
 - **Patch Details** window
 - **New patches** window
 - **List of Servers with Unapplied Patches** window
2. Perform the following patch application setup and confirmation operations in the wizard:
 - a. Select the patches to be applied
 - b. Select the target servers
 - c. Set the application method
 - d. Check the settings
 - e. Completion

3.3.1 Select Patches

If following operations is performed, the **Select patches** window of the **Patch Application** wizard will be displayed:

- Click the **Patch application** button in the **List of New Patches** window.



Operation method

Selecting patches

Select the patches to be applied.

Table 3.13 Windows patches

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Product name	Displays the product name (operating system name) corresponding to each patch.
Patch type	Displays the patch types. (This indicates the classification of updates, which represents the WSUS update program type.) <ul style="list-style-type: none"> - Security Updates - Critical Updates - Feature Packs - Service Packs - Tools - Drivers - Updates - Update Rollups - Definition Updates
Overview	Displays a title for each patch.
Release date	Displays the date when the patch was released.

Table 3.14 Linux patches

Item	Description
Package name	Displays the names of the RPM packages. Clicking a package name link displays the Patch Details window.
Version	Displays the versions of the packages.
Release	Displays the release numbers of the packages.
Architecture	Displays the architecture for each package.
Overview	Displays an overview of each package.
Release date	Displays the date when the package information was registered with Systemwalker Software Configuration Manager.

Table 3.15 Fujitsu middleware patches

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings

Item	Description
	- Recommended: Patches that are specified as "Recommended" in the operation policy settings
Importance	Displays the importance of each patch. - Recommended - Important - Security
Update type	Displays the update types of the patches. - Urgent
Product name	Displays the product names.
OS	Displays the operating systems (platforms).
Update title	Displays the update titles of the patches.
Release date	Displays the date when the patch information was registered with Systemwalker Software Configuration Manager.

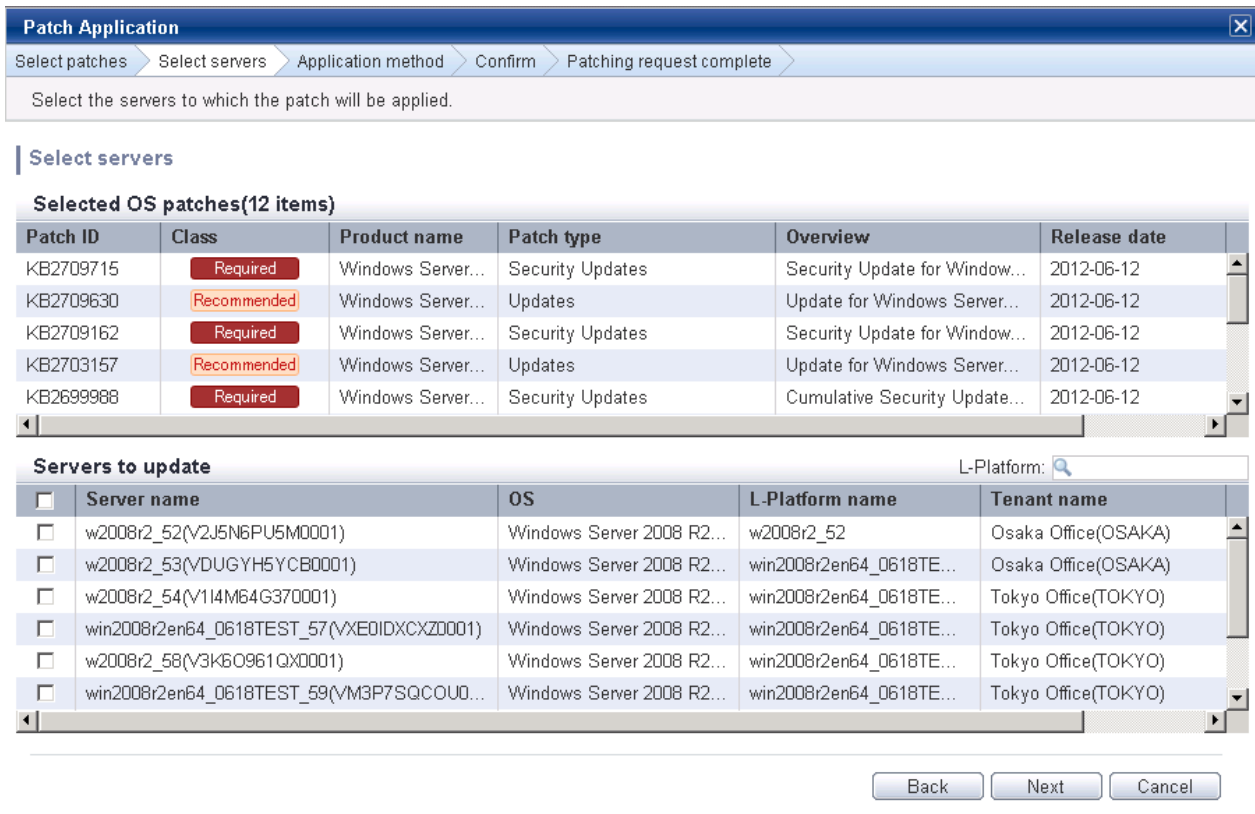
Operation buttons

Operation button	Description
Next	Moves to the Select servers window.
Cancel	Closes the Patch Application wizard.

3.3.2 Select Servers

The **Select servers** window is displayed when one of the following operations has been performed:

- Clicking the **Next** button in the **Select patches** window
- Using the checkboxes in the patch list window to select patches, and then clicking the **Patch application** button
- Clicking the **Patch application** button in the **Patch Details** window
- Click the **Patch application** button in the **List of Servers with Unapplied Patches** window.



Operation method

Selected patches

A list of the patches to be applied is displayed.

Table 3.16 Windows patches

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Product name	Displays the product name (operating system name) corresponding to each patch.
Patch type	Displays the patch types. (This indicates the classification of updates, which represents the WSUS update program type.) <ul style="list-style-type: none"> - Security Updates - Critical Updates - Feature Packs - Service Packs - Tools - Drivers - Updates

Item	Description
	<ul style="list-style-type: none"> - Update Rollups - Definition Updates
Overview	Displays a title of each patch.
Release date	Displays the date when the patch was released.

Table 3.17 Linux patches

Item	Description
Package name	Displays the names of the RPM packages. Clicking a package name link displays the Patch Details window.
Version	Displays the versions of the packages.
Release	Displays the release numbers of the packages.
Architecture	Displays the architecture for each package.
Overview	Displays an overview of each package.
Release date	Displays the date when the package information was registered with Systemwalker Software Configuration Manager.

Table 3.18 Fujitsu middleware patches

Item	Description
Patch ID	Displays the patch IDs.
Class	Displays the classification levels of the patches. <ul style="list-style-type: none"> - Required: Patches that are specified as "Required" in the operation policy settings - Recommended: Patches that are specified as "Recommended" in the operation policy settings
Importance	Displays the importance of each patch. <ul style="list-style-type: none"> - Recommended - Important - Security
Update type	Displays the update types of the patches. <ul style="list-style-type: none"> - Urgent
Product name	Displays the product names.
OS	Displays the operating systems (platforms).
Update title	Displays the update titles of the patches.
Release date	Displays the date when the patch information was registered with Systemwalker Software Configuration Manager.

Selecting servers

Select the servers to which the patches are to be applied.

Item	Description
Server name	Displays the server names.

Item	Description
OS	Displays the operating systems.
L-Platform name	Displays the L-Platform names.
Tenant name	Displays the tenant names.

Operation buttons

Operation button	Description
Back	Returns to the Select patches window.
Next	Moves to the Select patches window if servers have been selected using checkboxes.
Cancel	Closes the Patch Application wizard.

3.3.3 Application Method

When **Next** is clicked in the **Select servers** window, the **Application method** window is displayed.

The screenshot shows the 'Patch Application' wizard window. The title bar reads 'Patch Application' with a close button. The breadcrumb navigation shows: 'Select patches' > 'Select servers' > 'Application method' > 'Confirm' > 'Patching request complete'. Below the breadcrumb, it says 'Enter the patch application method.' The main content area is titled 'Enter the application method' and contains several sections:

- Schedule:**
 - Immediately
 - Specific date and time: [yyyy-mm-dd] [00] : [00]
- Script registration:**
 - Before execution:** [Text input] [Browse...]
 - If an error occurs: Confirm Continue
 - After execution:** [Text input] [Browse...]
 - If an error occurs: Confirm Continue
- Restart operating system after application:** Yes (when reboot is required) No

At the bottom right, there are three buttons: 'Back', 'Next', and 'Cancel'.

Operation method

Setting up the application method

Item	Description
Schedule	Specify a schedule. <ul style="list-style-type: none"> - Immediately: Select this option to perform the processing as soon as settings in the wizard are complete. - Specific date and time: Specify the date and time when processing is to be executed.

Item	Description
	Specify a date and time that is later than the current date and time on the admin server.
Script	<p>Specify the scripts to be executed before and after patch distribution/application, as well as the behavior of patch application processing if an error occurs during script execution.</p> <p>To apply Fujitsu middleware patches, a script specifying the application processing must be created and then registered as a post-execution script.</p> <p>Create the scripts registered here so that they output "0" as a return value to indicate normal completion and a value other than "0" as a return value to indicate an error.</p> <p>For the script to be registered, specify the full path to the file that is stored on the local machine where the browser is running.</p> <ul style="list-style-type: none"> - Confirm: If an error occurs, the user can select the appropriate script processing (such as "retry", "continue processing", or "cancel processing") from the Task management window or by using the job information management command. Refer to "Chapter 4 Task Management" for information on the Task management window. Refer to "Job Information Management Command" in the <i>Reference Guide</i> for information on the command. - Continue: Processing will continue even if an error occurs. - Refer to "Creating Scripts" in the <i>Operation Guide</i> for information on the scripts that are registered here.
Restart operating system after application	<p>Select whether to restart the server after the patch is distributed and applied.</p> <ul style="list-style-type: none"> - Yes <p>The behavior varies depending on the patch type, as follows:</p> <ul style="list-style-type: none"> - OS patches <p>The server will only be restarted for those patches that need to have the server restarted.</p> - Fujitsu middleware patches <p>The server will be restarted without fail.</p> - No <p>The server will not be restarted.</p>

Operation buttons

Operation button	Description
Back	Returns to the Select servers window.
Next	Moves to the confirmation window.
Cancel	Closes the Patch Application wizard.

3.3.4 Confirm

When **Next** is clicked in the **Application method** window, the **Confirm** window is displayed.

Check the settings that have been entered.

Patch Application ✕

Select patches
Select servers
Application method
Confirm
Patching request complete

Check the patch application details.

Confirm

Application method

Schedule		Immediately	
Script registration	Before execution	-	If an error occurs: -
	After execution	-	If an error occurs: -
Reboot after application		Reboot (when required)	

Update details

Server name	Patch ID	Class	Patch type	L-Platform name	Tenant name
w2008r2_52(V2J5...	KB2656372	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB2667402	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB2677070	Recommended	Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB2685939	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB2686830	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB2699779	Recommended	Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB2699988	Required	Security Updates	w2008r2_52	Osaka Office(OSA...
w2008r2_52(V2J5...	KB2703157	Recommended	Updates	w2008r2_52	Osaka Office(OSA...

Download CSV file
Back
execute
Cancel

Operation method

Application method

This section displays the settings that have been specified in the **Application method** window.

Update details

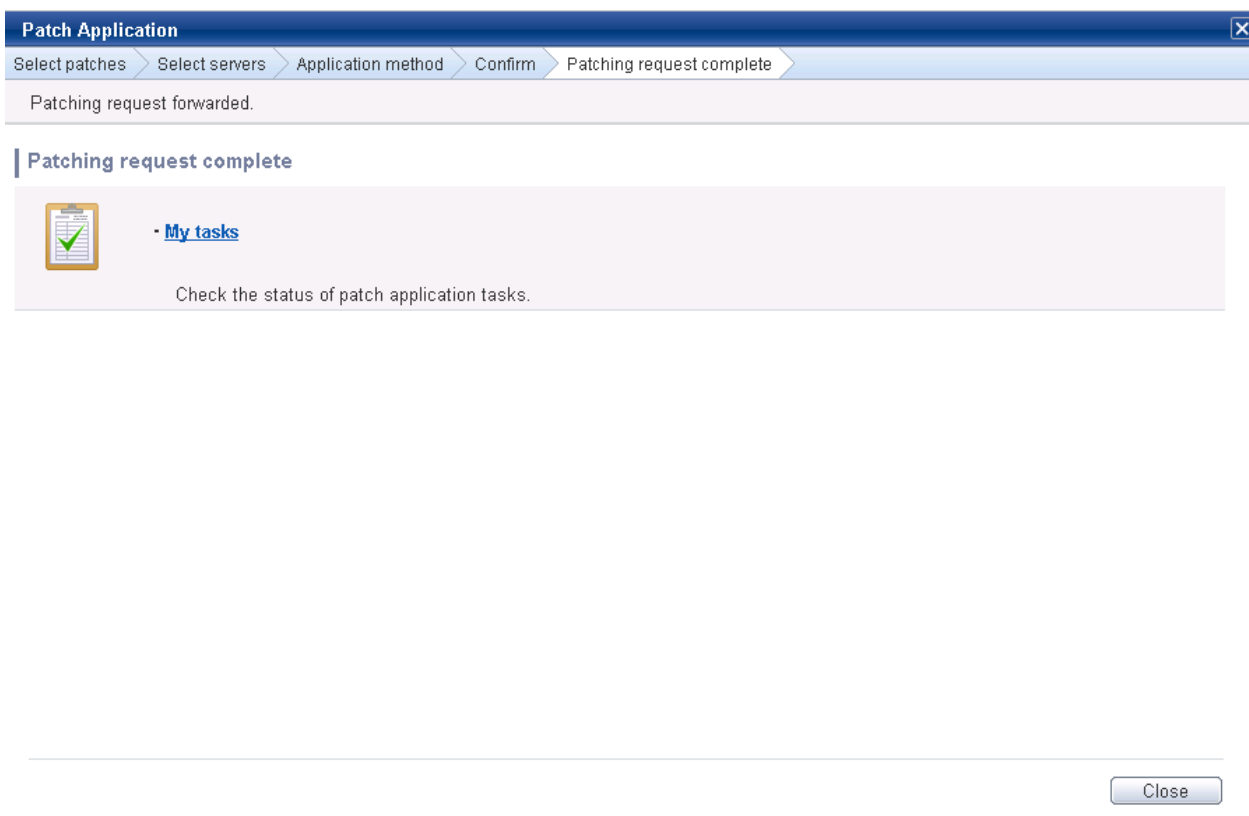
Item	Description	
Server name	Displays the server names.	
For Windows	Patch ID	Displays the patch IDs.
	Class	Displays the classification levels ("Required" or "Recommended") of the patches.
	Patch type	Displays the patch types. (This indicates the classification of updates, which represents the WSUS update program type.)
For Linux	Package name	Displays the names of the packages.
	Version	Displays the versions of the packages.
	Release	Displays the release numbers of the packages.
For Fujitsu middleware	Patch ID	Displays the patch IDs.
	Importance	Displays the importance of each patch ("Recommended", "Important" or "Security").
	Update type	Displays the update types of the patches ("Urgent").
L-Platform name	Displays the L-Platform names.	
Tenant name	Displays the tenant names.	

Operation buttons

Operation button	Description
Download CSV file	Outputs the information displayed in Update details to a CSV file.
Back	Returns to the Application method window.
Execute	Executes the patch application.
Cancel	Closes the Patch Application wizard.

3.3.5 Patching Request Complete

When **Next** is clicked in the **Confirm** window, the **Patching request complete** window is displayed.



Operation method

Task list

Item	Description
My tasks	Displays the Task management window where the user can check the status of the patch application operation that was executed. The status of the patch application operation that was executed can also be checked by using the job information management command. Refer to "Job Information Management Command" in the <i>Reference Guide</i> for details.

Operation buttons

Operation button	Description
Close	Closes the Patch Application wizard.

Chapter 4 Task Management

The following operations can be performed from the **Task management** window:

- Progress check
- "My tasks" operations

Note

If the Internet Explorer Enhanced Security Configuration (IE ESC) has been enabled, the [x] icon in pop-up windows will not work properly.

Refer to the following website for information on how to disable the Internet Explorer Enhanced Security Configuration.

<http://www.microsoft.com>

Note

Stopping ServerView Resource Orchestrator or Systemwalker Runbook Automation

Stop ServerView Resource Orchestrator or Systemwalker Runbook Automation only after checking whether the patch distribution/application process, parameter configuration process, or script execution process is running by using the following command. If a process is not running, it will not be displayed in the list.

Specify the process control user information in -user and -password. If it has changed from the default value, specify the changed value.

[Windows]

```
%SWRBA_HOME%\bin\swrba_admin pi-list -user swrbaadmin -password systemwalker#1 -state running -appid cfmApplication
```

[Linux]

```
/opt/FJSVswrbam/bin/swrba_admin pi-list -user swrbaadmin -password systemwalker#1 -state running -appid cfmApplication
```

See

If an error occurs on the admin server while a process is in progress

If an error, such as system failure, occurs on the admin server while the patch distribution/application process, parameter configuration process, or script execution process is running, the process is stopped. In such cases, you must restart the process after the admin server has been restored.

Refer to the *Troubleshooting Guide* for information on how to resume a process.

4.1 Progress Check

This operation involves checking the progress of the patch distribution/application process, parameter configuration process, or script execution process.

Operation method

1. Log in to the management console.
2. Use either of the following methods to display the **Task management** window:
 - a. Select **Task management** from the menu in the management console.

b. Click the **Task management** link in the **Home** window.

The screenshot shows the Systemwalker Task management interface. At the top, there is a navigation bar with 'Home', 'Configuration management', 'Patch management', and 'Task management' (which is selected). The user is logged in as 'manage'. Below the navigation bar, there is a 'My Tasks' section with a 'Task Filters' dropdown menu set to 'My Tasks' and a 'Refresh' button. A table displays 9 tasks found, with columns for Activity Name, Id, Process Instance Name, Created, Status, Due Date, and Priority. The first task is selected, and its details are shown in a panel below the table. The details panel has tabs for 'Summary' and 'Details', and the 'Details' tab is active, showing fields for Status (Active), From (swrbaadmin), To (manage), and Date (Jun 19 2012 16:16:13).

Activity Name	Id	Process Instance Name	Created	Status	Due Date	Priority
Patch distribution/application fail...	109592	Patch application request_108105...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	109578	Patch application request_107953_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	109142	Patch application request_108367_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	104649	Patch application request_103641_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	104637	Patch application request_103629_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101907	Patch application request_101059_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101893	Patch application request_100687_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101879	Patch application request_99645_rhel...	Jun, 19 2012	Active		8
Pre-execution script error check	100139	Patch application request_99457_rhel...	Jun, 19 2012	Active		8

Task: Patch distribution/application failu...

Summary Details

Details

Status: Active

From: swrbaadmin

To: manage

Date: Jun 19 2012 16:16:13

3. When a task is selected to confirm the status from the list of tasks displayed, detailed information about the task is displayed at the bottom of the window.

By selecting an option from the **Task Filters** pull-down menu above the list, the tasks displayed in the list can be filtered according to the filter conditions.

If **My Completed Tasks** is selected from the **Task Filters** pull-down menu, a list of the tasks that the login user has completed in the past can be viewed.

The following tasks complete automatically and so a list of these tasks can be viewed by selecting **My Completed Tasks** from the **Task Filters** pull-down menu.

- Patch distribution acceptance task
- Patch application acceptance task
- Parameter setting acceptance task
- Script execution acceptance task
- Patch distribution completion task
- Patch application completion task
- Parameter setting completion task

- Script execution completion task

The screenshot shows the Systemwalker Task management interface. At the top, there is a navigation bar with 'Home', 'Configuration management', 'Patch management', and 'Task management'. The 'Task management' tab is active. Below the navigation bar, there is a 'My Tasks' section with a 'Task Filters' dropdown set to 'My Tasks' and a 'Refresh' button. A table lists 9 tasks found. The last row, 'Pre-execution script error check', is highlighted in red. Below the table, the details for this task are shown, including a 'Summary' and 'Details' tab. The 'Details' tab is active, showing the task's status as 'Active', and the user 'manage'.

Activity Name	Id	Process Instance Name	Created	Status	Due Date	Priority
Patch distribution/application failure ch...	109592	Patch application request_108105_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	109578	Patch application request_107953_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	109142	Patch application request_108367_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	104649	Patch application request_103641_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	104637	Patch application request_103829_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101907	Patch application request_101059_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101893	Patch application request_100687_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101879	Patch application request_99645_rhel...	Jun, 19 2012	Active		8
Pre-execution script error check	100139	Patch application request_99457_...	Jun, 19 2012	Active		8

4. Click the **Details** tab, and then click the **Status check** tab in the **Form** panel.

The screenshot shows the Systemwalker Task management interface for a specific task. The 'Task: Patch distribution/application failur...' is selected. The 'Summary' and 'Details' tabs are visible, with 'Details' highlighted. Below the tabs, there is a 'Form' panel with a 'Status check' tab highlighted. A table shows the status of various items, including 'Patch distribution/application acceptance', 'Schedule cancelation', 'Server error check', 'Pre-application script execution error check', 'Patch distribution/application failure check', 'Post-application script execution error check', 'OS restart failure check', and 'Patch distribution/application completion'.

Confirmation item	Status	Execution time	Executed by
Patch distribution/application acceptance	Application accepted	2014-02-19 00:05:52	manage
Schedule cancelation	-		
Server error check	-		
Pre-application script execution error check	-		
Patch distribution/application failure check			
Post-application script execution error check			
OS restart failure check			
Patch distribution/application completion			

5. In the **Status check** tab, the status of various items can be checked to see the progress of ongoing tasks, and history information for completed tasks. All tasks can be viewed in the **Status check** tab.

Table 4.1 Confirmation items for patch distribution and application

Confirmation item	Status	Meaning	Execution time	Executed by
Patch distribution/ application acceptance	Distribution accepted	A patch distribution request has been made and the request has been accepted, with a distribution acceptance task being processed automatically as normal.	Displays the date and time of the task execution.	Displays the user that performed the patch distribution/application.
	Application accepted	A patch application request has been made and the request has been accepted, with an application acceptance task being processed automatically as normal.		
Schedule cancelation	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Cancel	Cancelation has been executed in a schedule cancelation task.		
Server error check	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Normal (after retrying)	After a server error occurred, task processing was retried and completed normally.		
	Abnormal (canceled)	A server error occurred and processing was canceled.		
Pre-execution script error check	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Successful (after retrying)	After processing failed, a retry was performed and processing completed normally.		
	Continued	An error occurred, but was ignored and processing continued.		
	Failed (canceled)	An error occurred and processing was canceled.		
Patch distribution/ application failure check	- (hyphen)	The task has either been skipped, or did not begin.		

Confirmation item	Status	Meaning	Execution time	Executed by
		Alternatively, signifies that no error has occurred.		
	Successful (after auto retrying)	Even if processing fails once during the patch application processing, retries will be performed automatically. Processing was successful as a result of such a retry attempt.		
	Successful (after retrying)	After processing failed, a retry was performed and processing completed normally.		
	Continued	An error occurred, but was ignored and processing continued.		
	Failed (canceled)	An error occurred and processing was canceled.		
Post-execution script error check	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Successful (after retrying)	After processing failed, a retry was performed and processing completed normally.		
	Continued	An error occurred, but was ignored and processing continued.		
	Failed (canceled)	An error occurred and processing was canceled.		
OS restart failure check	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Successful (after retrying)	After processing failed, a retry was performed and processing completed normally.		
	Continued	An error occurred, but was ignored and processing continued.		
	Failed (canceled)	An error occurred and processing was canceled.		
Patch distribution/ application completion	- (hyphen)	The task has either been skipped, or did not begin.		

Confirmation item	Status	Meaning	Execution time	Executed by
	Distribution complete	Patch distribution has completed.		
	Application complete	Patch application has completed.		

Table 4.2 Confirmation items for parameter settings

Confirmation item	Status	Meaning	Execution date and time	Executed by
Parameter settings acceptance	Settings accepted	A parameter settings request has been made and the request has been accepted, with the settings acceptance task being processed automatically as normal.	Displays the date and time of task execution.	Displays the user who configured the parameter settings.
Schedule cancelation	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Cancel	Cancelation has been executed in a schedule cancelation task.		
Server error check	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Normal (after retrying)	After a server error occurred, task processing was retried and completed normally.		
	Abnormal (canceled)	A server error occurred and processing was canceled.		
Pre-execution script error check	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Successful (after retrying)	After processing failed, a retry was performed and processing completed normally.		
	Continued	An error occurred, but was ignored and processing continued.		
	Failed (canceled)	An error occurred and processing was canceled.		
Parameter settings failure check	- (hyphen)	The task has either been skipped or did not begin. Alternatively, signifies that no error has occurred.		

Confirmation item	Status	Meaning	Execution date and time	Executed by
	Successful (after retrying)	After the parameter setting process failed, a retry was performed on the software for which the settings failed, as well as on the software for which settings had not yet been configured, and processing completed normally.		
	Successful (after retrying all)	After the parameter setting process failed, a retry was performed on all software and processing completed normally.		
	Continued	An error occurred, but was ignored and processing continued.		
	Failed (canceled)	An error occurred and processing was canceled.		
Post-execution script error check	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Successful (after retrying)	After processing failed, a retry was performed and processing completed normally.		
	Continued	An error occurred, but was ignored and processing continued.		
	Failed (canceled)	An error occurred and processing was canceled.		
OS restart failure check	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Successful (after retrying)	After processing failed, a retry was performed and processing completed normally.		
	Continued	An error occurred, but was ignored and processing continued.		
	Failed (canceled)	An error occurred and processing was canceled.		
Parameter settings completion	- (hyphen)	The task has either been skipped, or did not begin.		
	Settings complete	The parameter setting process is complete.		

Table 4.3 Confirmation items for script execution

Confirmation item	Status	Meaning	Execution date and time	Executed by
Script execution acceptance	Execution accepted	A script execution request has been made and the request has been accepted, with the execution acceptance task being processed automatically as normal.	Displays the date and time of task execution.	Displays the user who executed the script.
Schedule cancelation	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Cancel	Cancelation has been executed in a schedule cancelation task.		
Server error check	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Normal (after retrying)	After a server error occurred, task processing was retried and completed normally.		
	Abnormal (canceled)	A server error occurred and processing was canceled.		
Script execution failure check	- (hyphen)	The task has either been skipped or did not begin. Alternatively, signifies that no error has occurred.		
	Successful (after retrying)	After processing failed, a retry was performed and processing completed normally.		
	Continued	An error occurred, but was ignored and processing continued.		
	Failed (canceled)	An error occurred and processing was canceled.		
OS restart failure check	- (hyphen)	The task has either been skipped, or did not begin. Alternatively, signifies that no error has occurred.		
	Successful (after retrying)	After processing failed, a retry was performed and processing completed normally.		
	Continued	An error occurred, but was ignored and processing continued.		
	Failed (canceled)	An error occurred and processing was canceled.		

Confirmation item	Status	Meaning	Execution date and time	Executed by
Script execution completion	- (hyphen)	The task has either been skipped, or did not begin.		
	Execution complete	The script execution process is complete.		

Figure 4.1 Example of the Status check tab when processing has been performed normally

Patch distribution i			
Details		Check status	
Confirmation item	Status	Execution time	Executed by
Patch distribution/application acceptance	Distribution accepted	2014-02-17 18:54:37	manage
Schedule cancelation	-		
Server error check	-		
Pre-application script execution error check	-		
Patch distribution/application failure check	-		
Post-application script execution error check	-		
OS restart failure check	-		
Patch distribution/application completion	Distribution complete	2014-02-17 19:01:10	manage

Figure 4.2 Example of the Status check tab when processing has been performed by retry operations

Script execution c			
Details		Status check	
Confirmation item	Status	Execution time	Executed by
Script execution acceptance	Execution accepted	2014-02-25 22:51:49	manage
Schedule cancelation	-		
Server error check	-		
Script execution failure check	Successful(after retrying)	2014-02-25 23:16:42	manage
OS restart failure check	-		
Script execution completion	Execution complete	2014-02-25 23:18:13	manage

4.2 "My tasks" Operations

In the patch distribution/application process, parameter setting process, or script execution process, a task refers to an operation assigned to the person in charge when there is a change in the status of a process (activity) that requires a decision by that person.

The tasks assigned to the login user are displayed in the **My tasks** list. By selecting a task, predetermined operations can be performed on the processing. The following tasks are assigned to each user:

Table 4.4 List of tasks assigned to users (patch distribution and application)

Task	Action	User assigned to the task
Patch distribution acceptance	No action is required.	The user that performed the patch distribution or application (one of the following users) - Tenant user - Tenant administrator - Dual-role administrator
Patch application acceptance	No action is required.	
Schedule cancelation	Select the following to cancel the schedule: - Cancel	
Server error check	Select either of the following: - Retry - Cancel	
Pre-execution script error check	Select one of the following: - Retry - Continue - Cancel	
Patch distribution/application failure check	Select one of the following: - Retry - Continue - Cancel	
Post-execution script error check	Select one of the following: - Retry - Continue - Cancel	
OS restart failure check	Select one of the following: - Retry - Continue - Cancel	
Patch distribution completion check	No action is required.	
Patch application completion check	No action is required.	

Table 4.5 List of tasks assigned to users (parameter settings)

Task	Action	User assigned
Parameter setting acceptance	No action is required	One of the following users who set the parameters: - Tenant user - Tenant administrator - Dual-role administrator
Schedule cancelation	Select the following to cancel the schedule: - Cancel	
Server error check	Select one of the following: - Retry - Cancel	

Task	Action	User assigned
Pre-execution script error check	Select one of the following: <ul style="list-style-type: none"> - Retry - Continued - Cancel 	
Parameter setting failure check	Select one of the following: <ul style="list-style-type: none"> - Retry - Retry all - Continued - Cancel 	
Post-execution script error check	Select one of the following: <ul style="list-style-type: none"> - Retry - Continued - Cancel 	
OS restart failure check	Select one of the following: <ul style="list-style-type: none"> - Retry - Continued - Cancel 	
Parameter setting completion	No action is required	

Table 4.6 List of tasks assigned to users (script execution)

Task	Action	User assigned
Script execution acceptance	No action is required	One of the following users who performed script execution: <ul style="list-style-type: none"> - Tenant user - Tenant administrator - Dual-role administrator
Schedule cancelation	Select the following to cancel the schedule: <ul style="list-style-type: none"> - Cancel 	
Server error check	Select one of the following: <ul style="list-style-type: none"> - Retry - Cancel 	
Script execution failure check	Select one of the following: <ul style="list-style-type: none"> - Retry - Continued - Cancel 	
OS restart failure check	Select one of the following: <ul style="list-style-type: none"> - Retry - Continued - Cancel 	
Script execution completion	No action is required	

Operation method

1. Log in to the management console.
2. Use either of the following methods to display the **Task management** window:
 - a. Select **Task management** from the menu in the management console.
 - b. Click the **Task management** link in the **Home** window.

The screenshot displays the Systemwalker management console interface. At the top, the navigation bar includes 'Home', 'Configuration management', 'Patch management', and 'Task management' (which is currently selected). The user is logged in as 'manage'. Below the navigation bar, the 'My Tasks' section is visible, showing a dropdown menu set to 'My Tasks' and a 'Refresh' button. A table lists 9 tasks found, with columns for Activity Name, Id, Process Instance Name, Created, Status, Due Date, and Priority. The first task is highlighted in blue.

Activity Name	Id	Process Instance Name	Created	Status	Due Date	Priority
Patch distribution/application failu...	109592	Patch application request_108105...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	109578	Patch application request_107953_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	109142	Patch application request_108367_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	104649	Patch application request_103641_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	104637	Patch application request_103829_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101907	Patch application request_101059_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101893	Patch application request_100687_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101879	Patch application request_99645_rhel...	Jun, 19 2012	Active		8
Pre-execution script error check	100139	Patch application request_99457_rhel...	Jun, 19 2012	Active		8

Below the table, the 'Task: Patch distribution/application failu...' section is shown with 'Summary' and 'Details' tabs. The 'Details' tab is active, displaying the following information:

- Status: Active
- From: swrbaadmin
- To: manage
- Date: Jun 19 2012 16:16:13

- When the task to be processed is selected from the list of tasks displayed, detailed information about the task is displayed at the bottom of the window.

The screenshot shows the Systemwalker Task management interface. At the top, there is a navigation bar with 'Home', 'Configuration management', 'Patch management', and 'Task management'. The 'Task management' tab is active. Below the navigation bar, there is a 'My Tasks' section with a 'Task Filters' dropdown set to 'My Tasks' and a 'Refresh' button. A table lists 9 tasks found. The last task, 'Pre-execution script error check', is highlighted in red. Below the table, the details for this task are shown, including a 'Summary' tab and a 'Details' tab. The 'Details' tab is active, showing the task's status as 'Active', and fields for 'From' (swrbaadmin) and 'To' (manage).

Activity Name	Id	Process Instance Name	Created	Status	Due Date	Priority
Patch distribution/application failure ch...	109592	Patch application request_108105_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	109578	Patch application request_107953_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	109142	Patch application request_108367_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	104649	Patch application request_103641_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	104637	Patch application request_103829_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101907	Patch application request_101059_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101893	Patch application request_100687_rh...	Jun, 19 2012	Active		8
Patch distribution/application failure ch...	101879	Patch application request_99645_rhel...	Jun, 19 2012	Active		8
Pre-execution script error check	100139	Patch application request_99457_...	Jun, 19 2012	Active		8

- Click the **Details** tab, and then check the information in the **Form** panel.

The screenshot shows the Systemwalker Task management interface with the 'Details' tab selected. The 'Form' panel is visible, showing a 'Pre-execution scr' tab. The 'Details' sub-tab is active, displaying a notification: 'An error has occurred during the execution of the script that performs pre-processing for patch distribution/application. Select whether to retry, continue or cancel. If Retry is selected, the script will be executed again. If Continue is selected, processing will continue. If Cancel is selected, processing will be canceled.' Below the notification, there is a 'Maintenance information' section with a 'Details' sub-tab. The 'Details' sub-tab shows the following output:

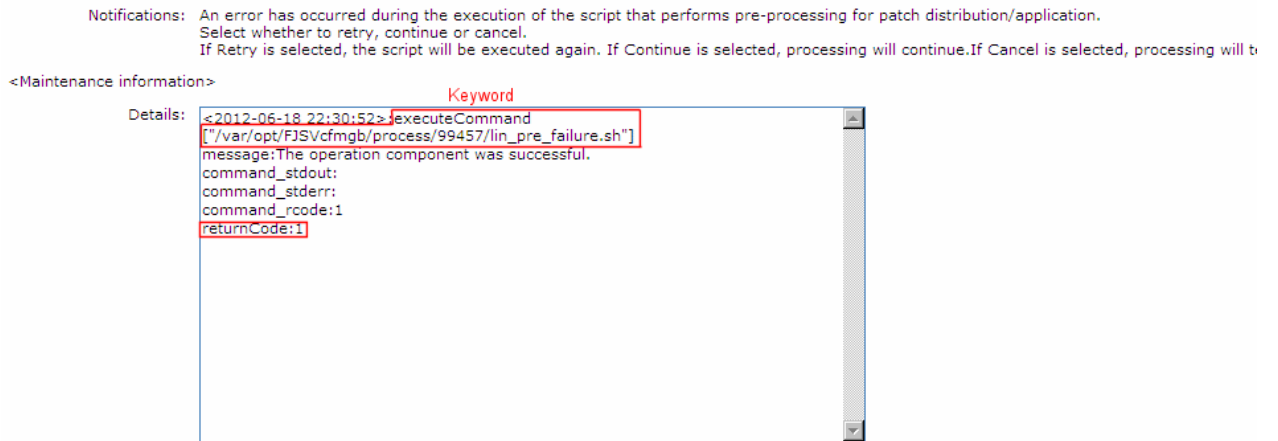
```
<2012-06-18 22:30:52>:executeCommand
["/var/opt/FJISVcfmgb/process/99457/lin_pre_failure.sh"]
message:The operation component was successful.
command_stdout:
command_stderr:
command_rcode:1
returnCode:1
```

If an error occurs, the logs will be output to the **Details** tab. Logs are added at the bottom in the order in which they are generated.

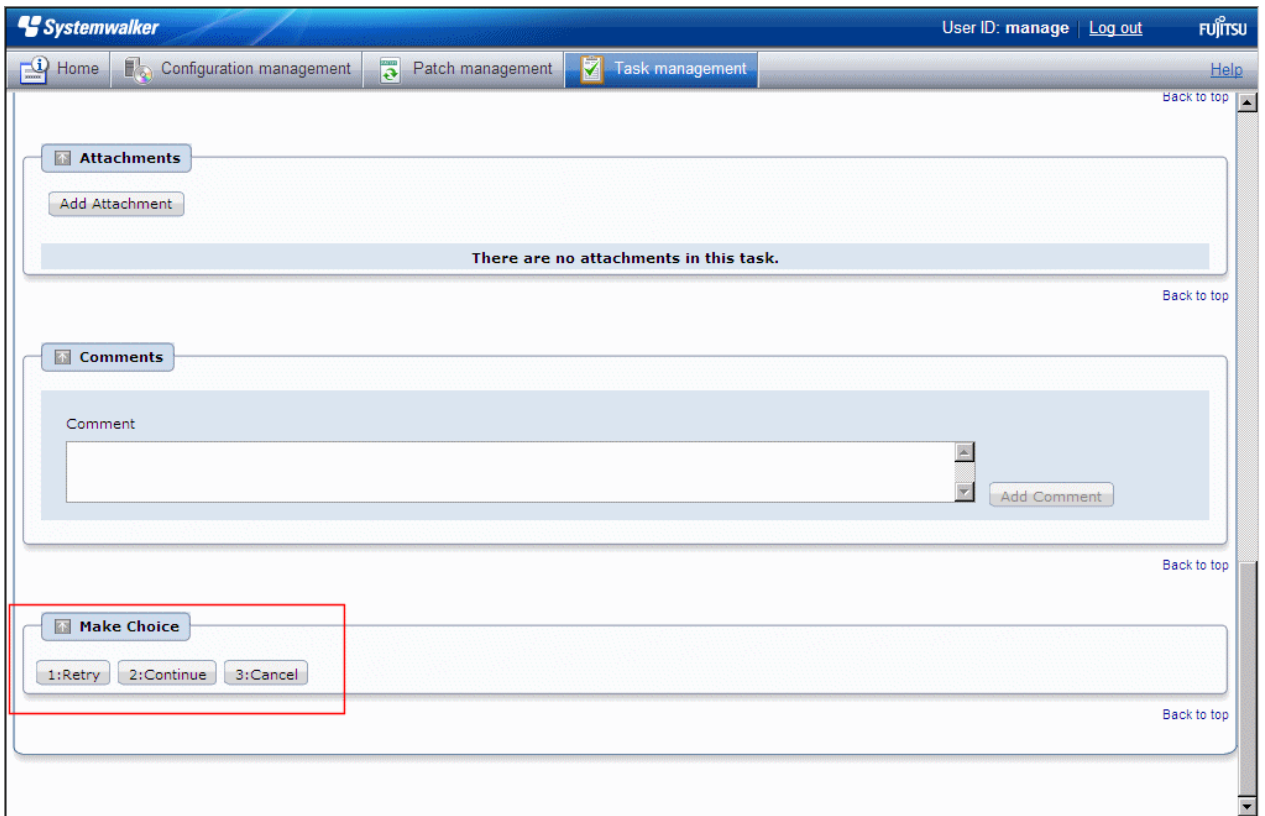
The log output format is as follows:

```
<yyyy-MM-dd HH:mm:ss>:<Keyword>  
message:  
  
...  
  
returnCode:
```

The following example shows the window that is displayed when an error has occurred with the pre-execution script.



5. The task will be processed when one of the options in the **Make Choice** panel is clicked.

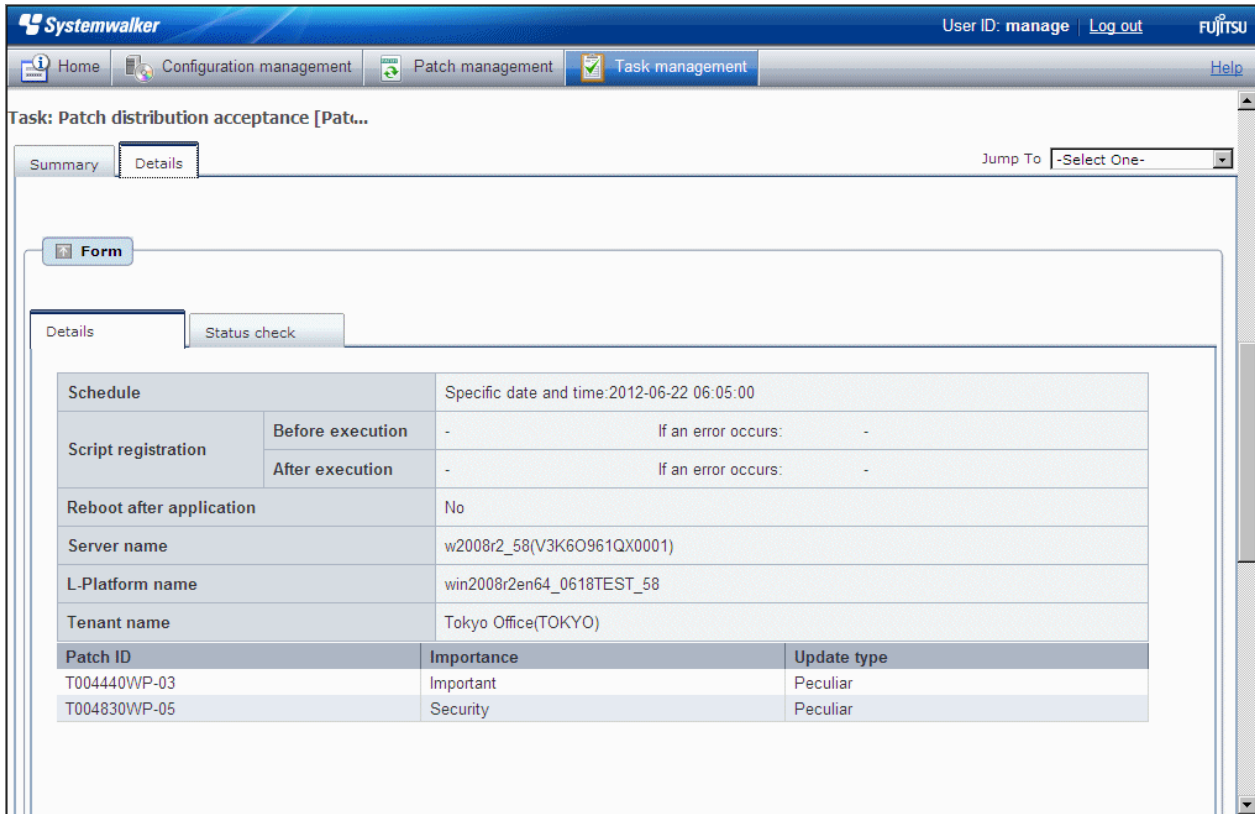


Refer to the explanations following this section for information on the operation methods for each task.

4.2.1 Patch Distribution Acceptance

No user action is required for the "patch distribution acceptance" task. Once a patch distribution request has been accepted, the status changes automatically.

This means that these tasks are not displayed in the task list. They can be viewed by selecting **My Completed Tasks** from the **Task Filters** pull-down menu.



The screenshot shows the Systemwalker Task management interface. The top navigation bar includes 'Home', 'Configuration management', 'Patch management', and 'Task management'. The user is logged in as 'manage'. The main content area displays the details of a task titled 'Task: Patch distribution acceptance [Pat...]'.

The task details are shown in a table format:

Schedule		Specific date and time:2012-06-22 06:05:00	
Script registration	Before execution	-	If an error occurs: -
	After execution	-	If an error occurs: -
Reboot after application		No	
Server name		w2008r2_58(V3K6O961QX0001)	
L-Platform name		win2008r2en64_0618TEST_58	
Tenant name		Tokyo Office(TOKYO)	
Patch ID	Importance	Update type	
T004440WP-03	Important	Peculiar	
T004830WP-05	Security	Peculiar	

4.2.2 Patch Application Acceptance

No user action is required for the "patch application acceptance" task. Once a patch application request has been accepted, the status changes automatically.

This means that these tasks are not displayed in the task list. They can be viewed by selecting **My Completed Tasks** from the **Task Filters** pull-down menu.

Systemwalker User ID: manage Log out FUJITSU

Home Configuration management Patch management Task management Help

Task: Patch application acceptance [Patc...]

Summary Details Jump To: -Select One-

Form

Details Status check

Schedule		Specific date and time:2012-06-18 22:50:00	
Script registration	Before execution	win_pre_success.bat	If an error occurs: Confirm
	After execution	win_post_success.bat	If an error occurs: Confirm
Reboot after application		Yes	
Server name		win2008r2en64_0618TEST_53(VBSEWT5ZZC0001)	
L-Platform name		win2008r2en64_0618TEST_53	
Tenant name		Tokyo Office(TOKYO)	
Patch ID	Required level	Patch type	
KB2667402	Mandatory	Security Update	
KB2677070	Recommended	Update	

4.2.3 Parameter Settings Acceptance

No user action is required for the "parameter setting acceptance" task. Once a parameter setting has been accepted, the status changes automatically.

For this reason, the task is not displayed in the task list, but can be viewed by selecting **My Completed Tasks** from the **Task Filters** pull-down menu.

Systemwalker User ID: manage Log out FUJITSU

Home Configuration management Patch management Task management Help

Task: Parameter settings acceptance [Pa...]

Summary Details Jump To: -Select One-

Form

Details Status check

Schedule		Immediately	
Script registration	Before execution	-	If an error occurs: -
	After execution	-	If an error occurs: -
Reboot after application		No	
Server name		BIS-MNG-DB01(VJOBKNN7GW0001)	
L-Platform name		LP-OSK-10001	
Tenant name		Osaka Office(OSAKA)	
Setting order	Product name	Version	Parameter information name
1	Interstage Application Server Enterprise Edition	V9.2.0	(Custom setting)

4.2.4 Script Execution Acceptance

No user action is required for the "script execution acceptance" task. Once a parameter setting has been accepted, the status changes automatically.

For this reason, the task is not displayed in the task list, but can be viewed by selecting **My Completed Tasks** from the **Task Filters** pull-down menu.

The screenshot shows the Systemwalker Task management interface. The top navigation bar includes 'Home', 'Configuration management', 'Patch management', and 'Task management'. The user is logged in as 'manage'. The main content area displays a task configuration form for 'Script execution failure check [Scrip...]'.

The form has tabs for 'Summary', 'Details', and 'Status check'. The 'Details' tab is active, showing a table with the following configuration:

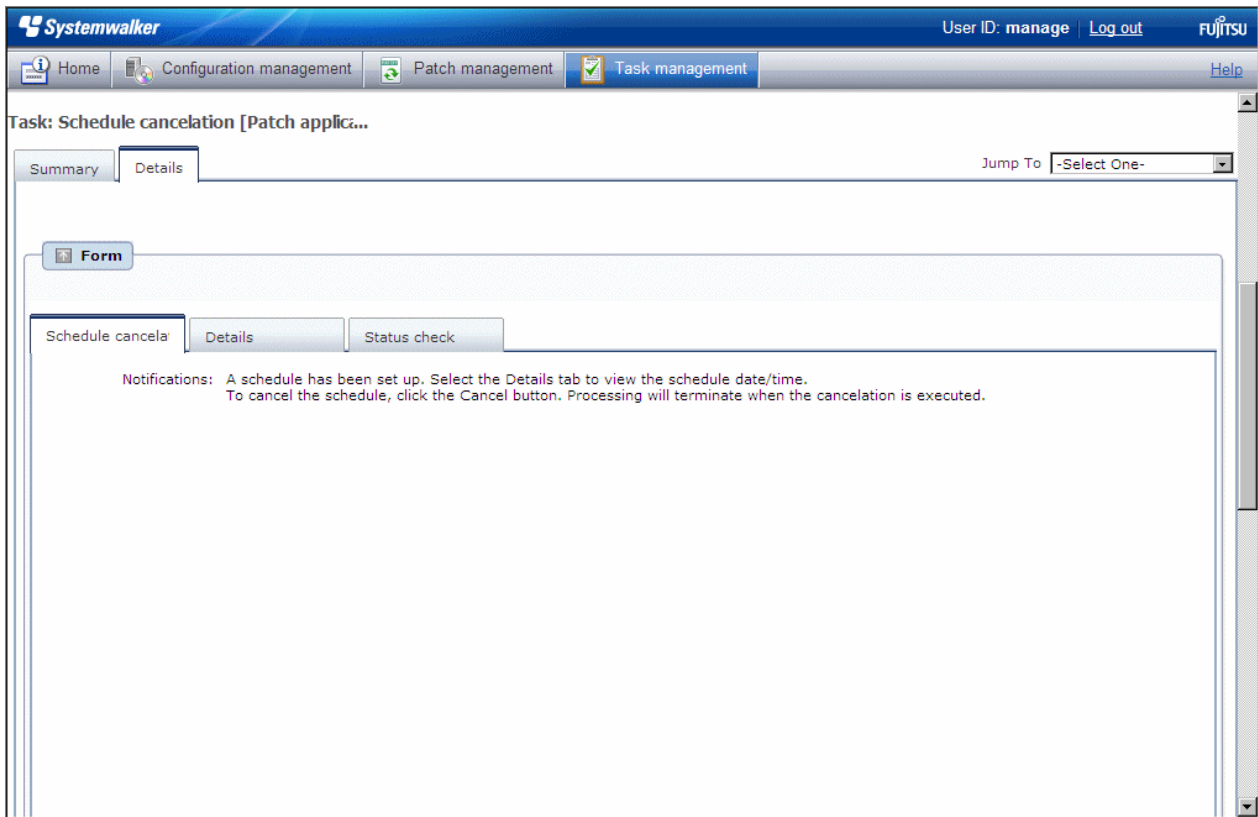
Schedule	Immediately
Script registration	create.bat If an error occurs: Confirm
Reboot after application	No
Server name	CT02-WSUS(CT02-WSUS)
L-Platform name	CT3UARZHB
Tenant name	SWCFMGtenant1(SWCFMG)

4.2.5 Schedule Cancellation

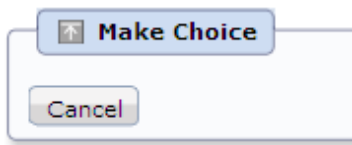
A "schedule cancellation" task is generated when a schedule is configured using the wizard.

To cancel a process, for which the scheduled date and time has been configured and is waiting to be processed, or to reset the scheduled date and time, terminate the process by performing a cancellation operation. If the process is terminated, the wizard will need to be executed again.

Note also that "schedule cancellation" tasks are only active while a schedule is in effect and processing is waiting for the scheduled time. Once the scheduled date and time has arrived and processing has started, this task can no longer be viewed from the task list, and so cancellation operations cannot be performed.



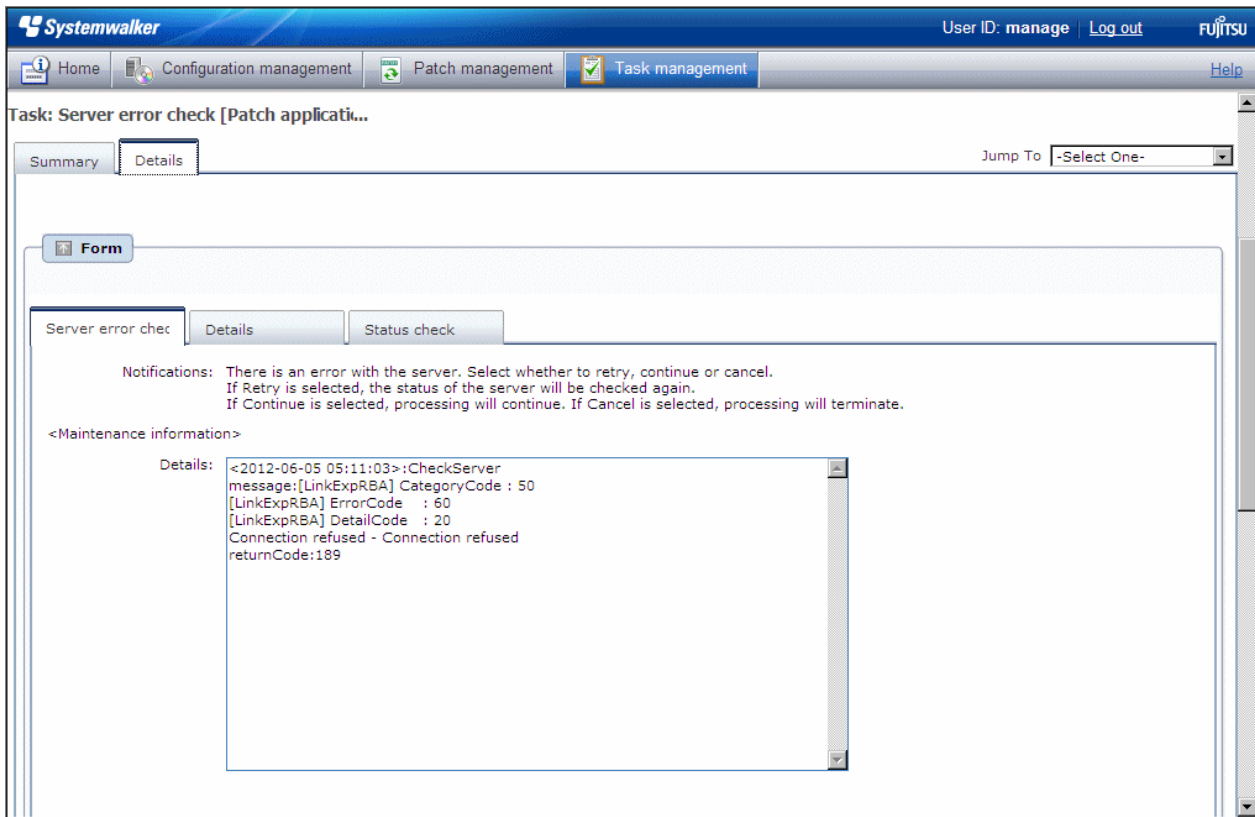
Make Choice panel



Click **Cancel** to terminate patch distribution/application processing.

4.2.6 Server Error Check

The "server error check" task is generated when a business server is not running normally.



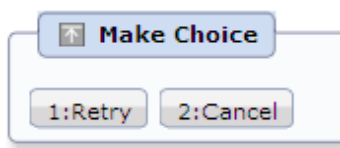
If a "server error check" task is generated, a log will be output to the **Details** field in the **Server error check** tab indicating the type of error that has occurred.

Refer to the "returnCode" information. The following table shows the expected values and their meaning:

Keyword	returnCode	Meaning
CheckServer	189	<p>If one of the following values has been output for "message" or "server_check_result", this means that the connection for network communications with the business server has failed:</p> <p>[LinkExpRBA] CategoryCode: 50</p> <p>[LinkExpRBA] ErrorCode: 80</p> <p>[Actions]</p> <p>Check the following items:</p> <ul style="list-style-type: none"> - The file transfer infrastructure may not have been set up on the business server. Check whether the file transfer infrastructure has been set up. - The business server may have stopped. Check the operational status of the business server. - The file transfer infrastructure may not be running on the business server. Start the file transfer infrastructure. <p>[Windows]</p> <p>Restart the "Systemwalker File Transfer Library Control" service.</p> <p>[Linux]</p> <p>Execute the following command:</p> <pre># service FJSVInkbs start</pre>

Keyword	returnCode	Meaning
		<ul style="list-style-type: none"> - There may be an error with the IP address of the business server that is specified in the "hosts" file. Check the IP address specified in the "hosts" file. - If the remote server is a PC server with a TCP/IP connection, the number of connection requests on the business server may have exceeded the maximum number of requests that can be simultaneously processed by WinSock. - The connection may have been blocked by a firewall on the communication path. - If the business server is running Windows, the connection may have been blocked by security settings such as the Windows firewall. - If the situation still does not change even after you have taken the appropriate action and then retried the processing, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.
		<p>If one of the following values has been output for "message" or "server_check_result", this means that a timeout has occurred during communications with the business server:</p> <p>[LinkExpRBA] CategoryCode: 50</p> <p>[LinkExpRBA] ErrorCode: 60</p> <p>[Actions]</p> <p>The following are the possible causes of the problem:</p> <ul style="list-style-type: none"> - The business server may be stopped. - The business server may have slowed down. - The network may be under high load. <p>Check these possible causes and then try again.</p> <p>If the situation still does not change despite the retry attempt, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p>
	Other	Collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.

Make Choice panel

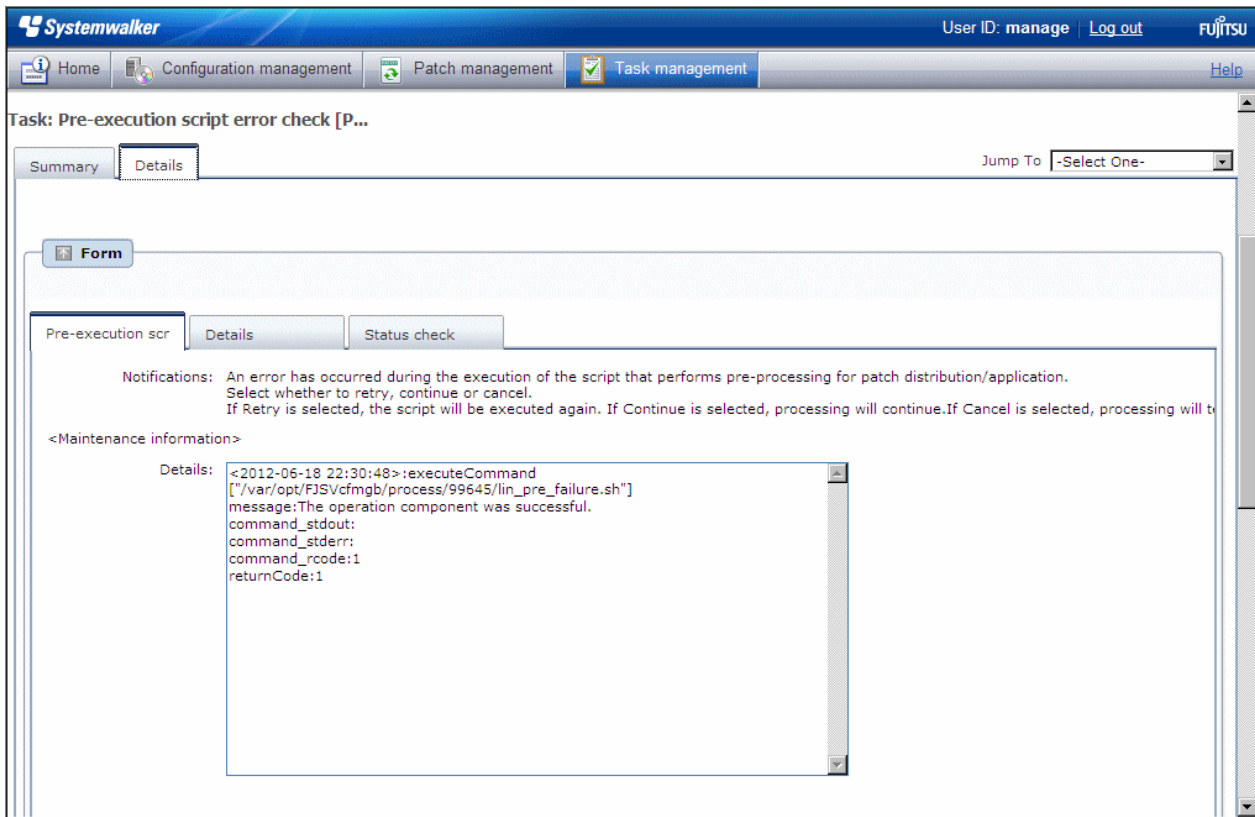


Click **Retry** to perform another check to see if the business server is operating normally.

Click **Cancel** to end the process.

4.2.7 Pre-execution Script Error Check

A "pre-execution script error check" task is generated when a pre-execution script has been registered and settings have been configured to terminate processing when an error occurs. For scripts, "0" is handled as normal termination, whereas values other than "0" are handled as errors. Refer to "Creating Scripts" in the *Operation Guide* for information on pre-execution scripts.



If a "pre-execution script error check" task is generated, a log will be output to the **Details** field in the **Pre-execution script error check** tab, indicating the type of error that has occurred.

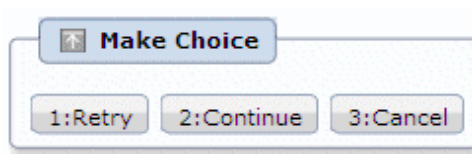
Refer to the "returnCode" information. The following table shows the expected values and their meaning:

Keyword	returnCode	Meaning
executeCommand[<Script path>]	Other than 0	<p>Logs are output using the following format:</p> <p>Example:</p> <pre><2012-04-17 16:25:09>:executeCommand ["C:/Fujitsu/Systemwalker/SWCFMGA/var/process/75974/pre_script.bat"] message: The operation component was successful. command_stdout: command_stderr: command_rcode:1 returnCode:1</pre> <p>The value of "command_rcode" is the return value output by the script.</p> <p>If the value of "command_rcode" is other than "0", this will be treated as an error.</p> <p>Check the script by referring to the return value.</p>
All	189	<p>If one of the following values has been output for "message", this means that the connection for network communications with the business server has failed.</p> <pre>[LinkExpRBA] CategoryCode: 50 [LinkExpRBA] ErrorCode: 80</pre> <p>[Actions]</p>

Keyword	returnCode	Meaning
		<p>Check the following items:</p> <ul style="list-style-type: none"> - The file transfer infrastructure may not have been set up on the business server. Check whether the file transfer infrastructure has been set up. - The business server may have stopped. Check the operational status of the business server. - The file transfer infrastructure may not be running on the business server. Start the file transfer infrastructure. <p>[Windows]</p> <p>Restart the "Systemwalker File Transfer Library Control" service.</p> <p>[Linux]</p> <p>Execute the following command:</p> <pre># service FJSVInkbs start</pre> <ul style="list-style-type: none"> - There may be an error with the IP address of the business server that is specified in the "hosts" file. Check the IP address specified in the "hosts" file. - If the remote server is a PC server with a TCP/IP connection, the number of connection requests on the business server may have exceeded the maximum number of requests that can be simultaneously processed by WinSock. - The connection may have been blocked by a firewall on the communication path. - If the business server is running Windows, the connection may have been blocked by security settings such as the Windows firewall. - If the situation still does not change even after you have taken the appropriate action and then retried the processing, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support. <hr/> <p>If one of the following values has been output for "message" or "server_check_result", this means that a timeout has occurred during communications with the business server.</p> <p>[LinkExpRBA] CategoryCode: 50</p> <p>[LinkExpRBA] ErrorCode: 60</p> <p>[Actions]</p> <p>The following are the possible causes of the problem:</p> <ul style="list-style-type: none"> - The business server may be stopped. - The business server may have slowed down. - The network may be under high load. <p>Check these possible causes and then try again.</p> <p>If the situation still does not change despite the retry attempt, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p> <hr/> <p>If one of the following values has been output for "message", this means that a timeout has occurred during communications with the business server.</p> <p>[LinkExpRBA] CategoryCode: 50</p> <p>[LinkExpRBA] ErrorCode: 60</p>

Keyword	returnCode	Meaning
		<p>[Actions]</p> <p>The following are the possible causes of the problem:</p> <ul style="list-style-type: none"> - The business server may be stopped. - The business server may have slowed down. - The network may be under high load. <p>Check these possible causes and then try again.</p> <p>If the situation still does not change despite the retry attempt, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p>
	Other	Collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.

Make Choice panel



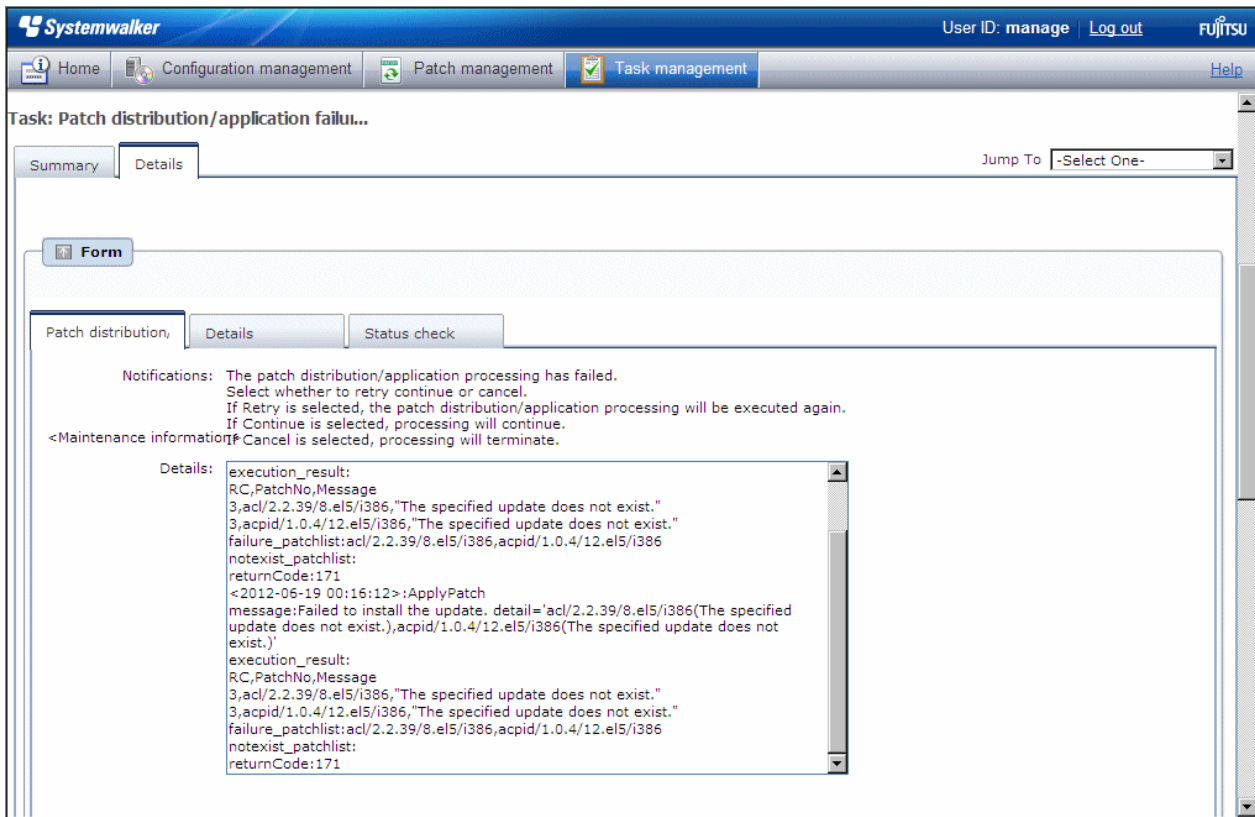
Click **Retry** to execute the script again.

Click **Continue** to ignore the error and continue processing.

Click **Cancel** to end the process.

4.2.8 Patch Distribution/Application Failure Check

A "patch distribution/application failure check" task is generated when patch distribution/application processing has failed.



If a "patch distribution/application failure check" task is generated, a log will be output to the **Details** field in the **Patch distribution/application failure check** tab, indicating the type of error that has occurred.

Refer to the "returnCode" information. The following table shows the expected values and their meaning.

Keyword	returnCode	Meaning
ApplyPatch	171	Application of one or more patches has failed. [Action] Try again. If the result does not change despite the retry attempt, the patch may be in a state where it cannot be applied.
	172	The server needs to be restarted and application of one or more patches has failed. [Action] If the server needs to be restarted and Restart operating system after execution has been set, the server will be restarted automatically. In this case, this problem is recorded as a log, but the server will be restarted and the application of the failed patches will be retried automatically. If there are any patches that have failed, perform a retry. If the result does not change despite the retry attempt, the patch may be in a state where it cannot be applied.
	173	Execution of the yum command has failed during the pre-application preparations. [Action] Try again. If the result does not change despite the retry attempt, there may be a problem with the environment for the yum repository server. Check the status of the linkage server.
All	189	If one of the following values has been output for "message", this means that the connection for network communications with the business server has failed. [LinkExpRBA] CategoryCode: 50

Keyword	returnCode	Meaning
		<p>[LinkExpRBA] ErrorCode: 80</p> <p>[Actions]</p> <p>Check the following items:</p> <ul style="list-style-type: none"> - The file transfer infrastructure may not have been set up on the business server. Check whether the file transfer infrastructure has been set up. - The business server may have stopped. Check the operational status of the business server. - The file transfer infrastructure may not be running on the business server. Start the file transfer infrastructure. <p>[Windows]</p> <p>Restart the "Systemwalker File Transfer Library Control" service.</p> <p>[Linux]</p> <p>Execute the following command:</p> <pre># service FJSVlnkbs start</pre> <ul style="list-style-type: none"> - There may be an error with the IP address of the business server that is specified in the "hosts" file. Check the IP address specified in the "hosts" file. - If the remote server is a PC server with a TCP/IP connection, the number of connection requests on the business server may have exceeded the maximum number of requests that can be simultaneously processed by WinSock. - The connection may have been blocked by a firewall on the communication path. - If the business server is running Windows, the connection may have been blocked by security settings such as the Windows firewall. - If the situation still does not change even after you have taken the appropriate action and then retried the processing, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support. <p>If one of the following values has been output for "message", this means that a timeout has occurred during communications with the business server.</p> <p>[LinkExpRBA] CategoryCode: 50</p> <p>[LinkExpRBA] ErrorCode: 60</p> <p>[Actions]</p> <p>The following are the possible causes of the problem:</p> <ul style="list-style-type: none"> - The business server may be stopped. - The business server may have slowed down. - The network may be under high load. <p>Check these possible causes and then try again.</p> <p>If the situation still does not change despite the retry attempt, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p>
	Other	<p>Collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p>

Table 4.7 Information output in relation to patch application failure

Item	Meaning
message	<ul style="list-style-type: none"> - If the operation terminates normally This variable will be set to the following message if patches are successfully applied to all of the servers. "The operation component was successful." - If the operation terminates abnormally The content of the error is set as a string. The following output formats and output examples are for when application processing for all of the specified patches is performed but the application of even one patch fails. Refer to the Microsoft website for information on the "code" part of the error content. <ul style="list-style-type: none"> - When a patch is applied to a Windows server Failed to install the update. detail="<Update number(Code)>,<Update number(Code)>..." [Output example] Failed to install the update. detail="KB00001(0x8024402c),..." Note: Refer to "Application of Windows cumulative patches" below. - When a patch is applied to a Linux server Failed to install the update. detail="<Package name(Error message)>,<Package name(Error message)>..." [Output example] Failed to install the update. detail="openssh.i386(Error: Missing Dependency: openssh.i386 >= 1.0 is needed by package openssh-askpass.i386 (Server)),..."
execution_result	<p>The result of applying the patch is stored in this variable.</p> <p>The result is output using the following format:</p> <pre>[<RC(Patch application return code)>],[<PatchNo(Number for the update applied)>],[<Message(Message)>]</pre>
failure_patchlist	<p>If the process of applying patches fails or is interrupted, or the patches to be applied do not exist in the list of applicable patches, the following information will be output in CSV format. Information is output in the order specified by the option.</p> <p>The patches output to notexist_patchlist are also included.</p> <ul style="list-style-type: none"> - For Windows patches: Patch numbers - For Linux patches: Package names
notexist_patchlist	<p>If the specified patch does not exist in the list of applicable patches returned by WSUS, the following information will be output in CSV format. Information is output in the order specified by the option.</p> <ul style="list-style-type: none"> - Patch numbers
returnCode	<p>This variable is set to the return value.</p>



Note

Application of Windows cumulative patches

For Windows patches, the patches to be applied may have been absorbed into other, more recent patches (cumulative patches).

In this case, the latest cumulative patch that has absorbed the patches to be applied must be applied.

If the patch is not the latest patch, application may fail with the following message being output as detailed information.

```

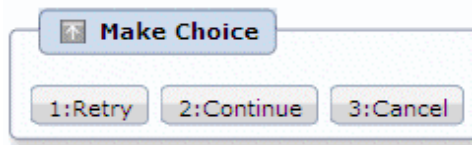
message:Failed to install the update. detail='<Update number(Code)>'
execution_result:
RC,PatchNo,Message
4,<Update number>,"The specified update does not exist."

```

Apply the latest cumulative patch that has absorbed the patch that has failed to be applied. Check the Microsoft website for information on the latest cumulative patches.

If multiple patches are applied and some of these patches fail to be applied for the reason above, click **Continue** to continue processing, ignoring the failure.

Make Choice panel



Click **Retry** to distribute and apply the patch again.

Click **Continue** to ignore the error and continue processing.

Click **Cancel** to terminate patch distribution/application processing.

4.2.9 Parameter Settings Failure Check

A "parameter setting failure check" task is generated when the parameter setting processing has failed.

Log information is output using the following format:

```

<yyyy-MM-dd HH:mm:ss>: <Keyword>
message:
...

```

returnCode:

Keyword	returnCode	Meaning
SetupParameter	1	<p>Parameter setting failed.</p> <p>Information about the software in which the parameter setting process failed is output to "message" using the format below.</p> <p>Failed to set up the software parameter setting. [index] {0} [softwareName] {1} [version] {2} [ret] {3} [stdout] {4} [stderr] {5}</p> <p>[Parameters]</p> <p>{0}: Software setting sequence {1}: Software product name {2}: Software version {3}: Return value of the parameter setting script {4}: Standard output of the parameter setting script {5}: Standard error of the parameter setting script</p> <p>[Action]</p> <p>Take the appropriate action described below according to whether the software product name that was returned refers to software that was previously registered using this product or software that was registered using the software information management command.</p> <ul style="list-style-type: none"> - Software that was previously registered using this product Refer to the section on the various software products in "Parameter Reference", and take action. Check if a recovery process is available before making any retry attempt. Also, select the process from the Task management window. - Software that was registered using the software information management command <p>Take action based on error information displayed for return values, standard output, and standard errors. Also, select the process from the Task management window.</p>
	1	<p>An unexpected error has occurred during parameter setting.</p> <p>Information about the software in which the parameter setting process failed is output to "message" using the format below.</p> <p>An unexpected error has occurred while setting software parameter. [index] {0} [softwareName] {1} [version] {2} [detail] {3}</p> <p>[Parameters]</p>

Keyword	returnCode	Meaning
		{0}: Software setting sequence {1}: Software product name {2}: Software version {3}: Details [Action] Check the detailed information that is output, and contact Fujitsu technical support.
	1	An unexpected error has occurred during parameter setting processing. The following is displayed against "message": An unexpected error has occurred. [Detail] {0} [Parameters] {0}: Details [Action] Contact Fujitsu technical support.
All	189	If one of the following values is output against "message", it means that the network connection with the business server has failed: [LinkExprBA] CategoryCode: 50 [LinkExprBA] ErrorCode: 80 [Action] Check the following items: <ul style="list-style-type: none"> - The file transfer infrastructure may not have been set up on the business server. Check whether the file transfer infrastructure has been set up. - The business server may have stopped. Check the operational status of the business server. - The file transfer infrastructure may not be running on the business server. Start the file transfer infrastructure. [Windows] Restart the Systemwalker File Transfer Library Control service. [Linux] Execute the following command: # service FJSVInkbs start <ul style="list-style-type: none"> - There may be an error with the IP address specified in the "hosts" file for the business server. Check the IP address specified in the "hosts" file. - If the remote server is a PC server with a TCP/IP connection, the number of connection requests on the business server may have exceeded the maximum number of requests that can be simultaneously processed by WinSock. - The connection may have been blocked by a firewall on the communication path. - If the business server is running Windows, the connection may have been blocked by security settings such as the Windows firewall. - If the situation still does not change despite the appropriate action having been taken and processing retried, collect investigation data using the problem

Keyword	returnCode	Meaning
		<p>investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p> <p>If one of the following values is output against "message" or "server_check_result", it means that a timeout has occurred during communication with the business server.</p> <p>[LinkExprRBA] CategoryCode: 50 [LinkExprRBA] ErrorCode: 60</p> <p>[Action]</p> <p>The following are possible causes of the problem:</p> <ul style="list-style-type: none"> - The business server may have stopped. - The business server may have slowed down. - The communications environment may be experiencing a high load. <p>Check these possible causes, and then retry.</p> <p>If the situation still does not change despite a retry having been attempted, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p>
		<p>In the event that one of the following values is output against "message", it means that a timeout has occurred during communication with the business server.</p> <p>[LinkExprRBA] CategoryCode: 50 [LinkExprRBA] ErrorCode: 60</p> <p>[Action]</p> <p>The following are possible causes of the problem:</p> <ul style="list-style-type: none"> - The business server may have stopped. - The business server may have slowed down. - The communications environment may be experiencing a high load. <p>Check these possible causes and then retry.</p> <p>If the situation still does not change despite a retry having been attempted, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p>
	Other	Collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.

Make Choice panel



Click **Retry** to reconfigure parameter settings on the software in which the failure occurred, as well as for the software in which parameters have not yet been configured.

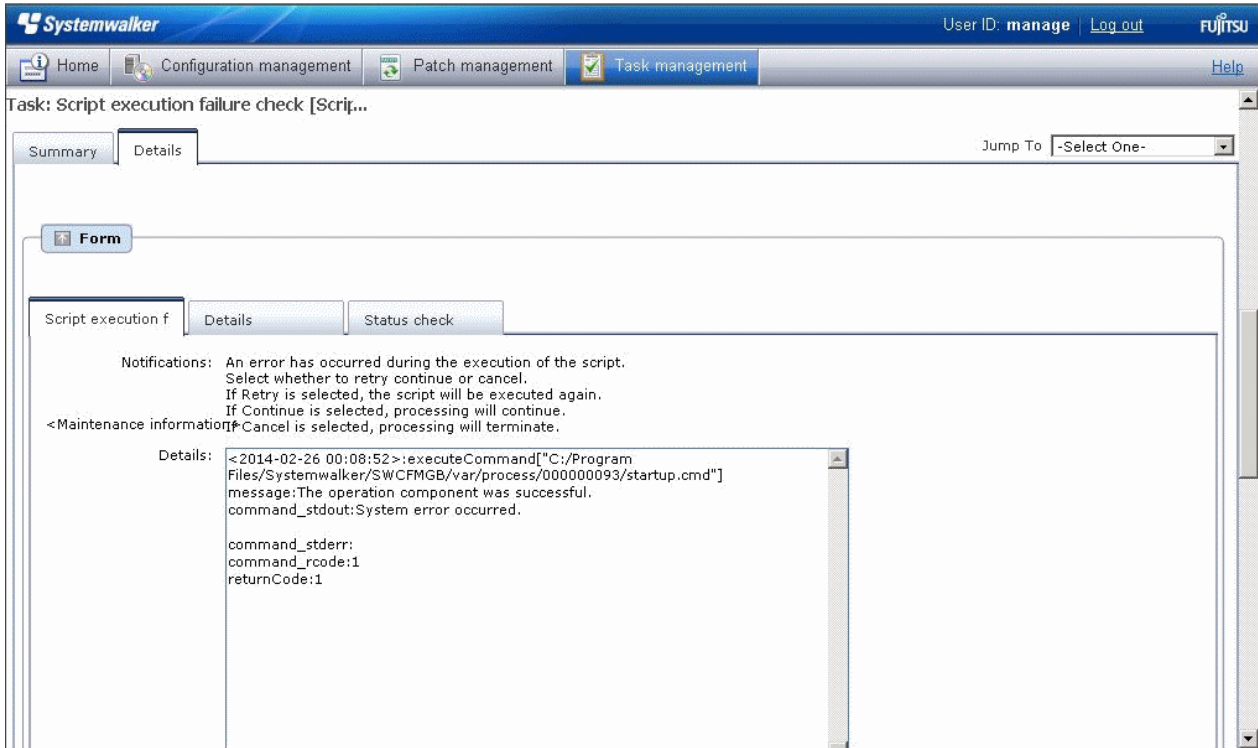
Click **Retry all** to re-configure parameters for all software in which settings can be configured.

Click **Continue** to ignore the error and continue processing.

Click **Cancel** to terminate processing.

4.2.10 Script Execution Failure Check

A "script execution failure check" task is generated when the script execution process fails.



Log information is output using the following format:

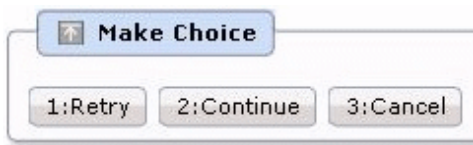
```
<yyyy-MM-dd HH:mm:ss>:<Keyword>
message:
...
returnCode:
```

Keyword	returnCode	Meaning
ExecuteScript	1	<p>Script processing has failed. The failed script results are output against "message".</p> <p>Failed to execute the script.</p> <p>[ret] {0}</p> <p>[stdout] {1}</p> <p>[stderr] {2}</p> <p>[Parameters]</p> <p>{0}: Return value of the script</p> <p>{1}: Standard output of the script</p> <p>{2}: Standard error of the script</p> <p>[Action]</p>

Keyword	returnCode	Meaning
		Take action based on error information displayed for return values, standard output, and standard errors. Also, select the process from the Task management window.
All	189	<p>In the event that one of the following values is output against "message", it means that the connection for network communications with the business server has failed</p> <p>[LinkExprBA] CategoryCode : 50 [LinkExprBA] ErrorCode : 80</p> <p>[Action]</p> <p>Check the following items:</p> <ul style="list-style-type: none"> - The file transfer infrastructure may not have been set up on the business server. Check whether the file transfer infrastructure has been set up. - The business server may have stopped. Check the operational status of the business server. - The file transfer infrastructure may not be running on the business server. Start the file transfer infrastructure. <p>[Windows] Restart the Systemwalker File Transfer Library Control service.</p> <p>[Linux] Execute the following command: # service FJSVlnkbs start</p> <ul style="list-style-type: none"> - There may be an error with the IP address specified in the "hosts" file for the business server. Check the IP address specified in the "hosts" file. - If the remote server is a PC server with a TCP/IP connection, the number of connection requests on the business server may have exceeded the maximum number of requests that can be simultaneously processed by WinSock. - The connection may have been blocked by a firewall on the communication path. - If the business server is running Windows, the connection may have been blocked by security settings such as the Windows firewall. - If the situation still does not change despite the appropriate action having been taken and processing retried, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support. <hr/> <p>In the event that one of the following values is output against "message" or "server_check_result", it means that a timeout has occurred during communication with the business server.</p> <p>[LinkExprBA] CategoryCode : 50 [LinkExprBA] ErrorCode : 60</p> <p>[Action]</p> <p>The following are possible causes of the problem:</p> <ul style="list-style-type: none"> - The business server may have stopped. - The business server may have slowed down. - The communications environment may be experiencing a high load. <p>Check these possible causes and then retry.</p>

Keyword	returnCode	Meaning
		<p>If the situation still does not change despite a retry having been attempted, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p> <p>In the event that one of the following values is output against "message", it means that a timeout has occurred during communication with the business server.</p> <p>[LinkExpRBA] CategoryCode : 50 [LinkExpRBA] ErrorCode : 60</p> <p>[Action]</p> <p>The following are possible causes of the problem:</p> <ul style="list-style-type: none"> - The business server may have stopped. - The business server may have slowed down. - The communications environment may be experiencing a high load. <p>Check these possible causes and then retry.</p> <p>If the situation still does not change despite a retry having been attempted, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p>
	Other	Collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.

Make Choice panel



Click **Retry** to execute again.

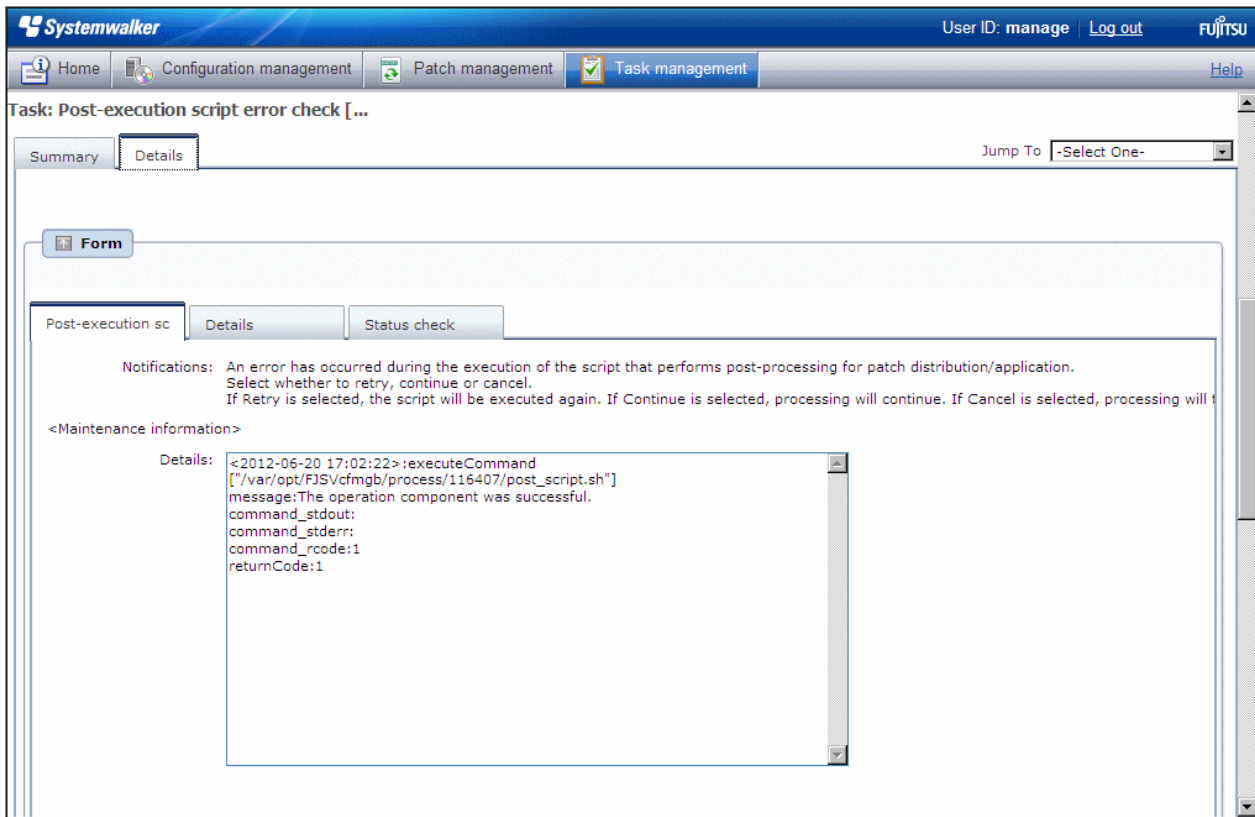
Click **Continue** to ignore the error and continue processing.

Click **Cancel** to terminate processing.

4.2.11 Post-execution Script Error Check

A "post-execution script error check" task is generated when a post-execution script has been registered and settings have been configured to terminate processing when an error occurs.

For scripts, "0" is handled as normal termination, whereas values other than "0" are handled as errors. Refer to "Creating Scripts" in the *Operation Guide* for information on post-execution scripts.



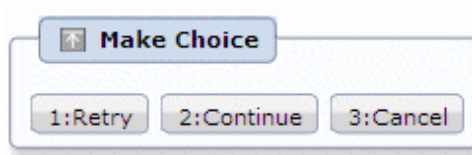
If a "post-execution script error check" task is generated, a log will be output to the **Details** field in the **Post-execution script error check** tab, indicating the type of error that has occurred.

Refer to the "returnCode" information. The following table shows the expected values and their meaning.

Keyword	returnCode	Meaning
executeCommand[<Script path>]	Other than 0	Logs are output using the following format. Example: <2012-04-17 16:25:09>:executeCommand ["C:/Fujitsu/Systemwalker/SWCFMGA/var/process/75974/post_script.bat"] message: The operation component was successful. command_stdout: command_stderr: command_rcode:1 returnCode:1 The value of "command_rcode" is the return value output by the script. If the value of "command_rcode" is other than "0", this will be treated as an error. Check the script by referring to the return value.
All	189	If one of the following values has been output for "message", this means that the connection for network communications with the business server has failed. [LinkExprBA] CategoryCode: 50 [LinkExprBA] ErrorCode: 80 [Actions]

Keyword	returnCode	Meaning
		<p>Check the following items:</p> <ul style="list-style-type: none"> - The file transfer infrastructure may not have been set up on the business server. Check whether the file transfer infrastructure has been set up. - The business server may have stopped. Check the operational status of the business server. - The file transfer infrastructure may not be running on the business server. Start the file transfer infrastructure. <p>[Windows]</p> <p>Restart the "Systemwalker File Transfer Library Control" service.</p> <p>[Linux]</p> <p>Execute the following command:</p> <pre># service FJSVlnkbs start</pre> <ul style="list-style-type: none"> - There may be an error with the IP address of the business server that is specified in the "hosts" file. Check the IP address specified in the "hosts" file. - If the remote server is a PC server with a TCP/IP connection, the number of connection requests on the business server may have exceeded the maximum number of requests that can be simultaneously processed by WinSock. - The connection may have been blocked by a firewall on the communication path. - If the business server is running Windows, the connection may have been blocked by security settings such as the Windows firewall. - If the situation still does not change even after you have taken the appropriate action and then retried the processing, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support. <p>If one of the following values has been output for "message", this means that a timeout has occurred during communications with the business server.</p> <p>[LinkExprBA] CategoryCode: 50</p> <p>[LinkExprBA] ErrorCode: 60</p> <p>[Actions]</p> <p>The following are the possible causes of the problem:</p> <ul style="list-style-type: none"> - The business server may be stopped. - The business server may have slowed down. - The network may be under high load. <p>Check these possible causes and then try again.</p> <p>If the situation still does not change despite the retry attempt, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p>
	Other	Collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.

Make Choice panel



Click **Retry** to execute the script again.

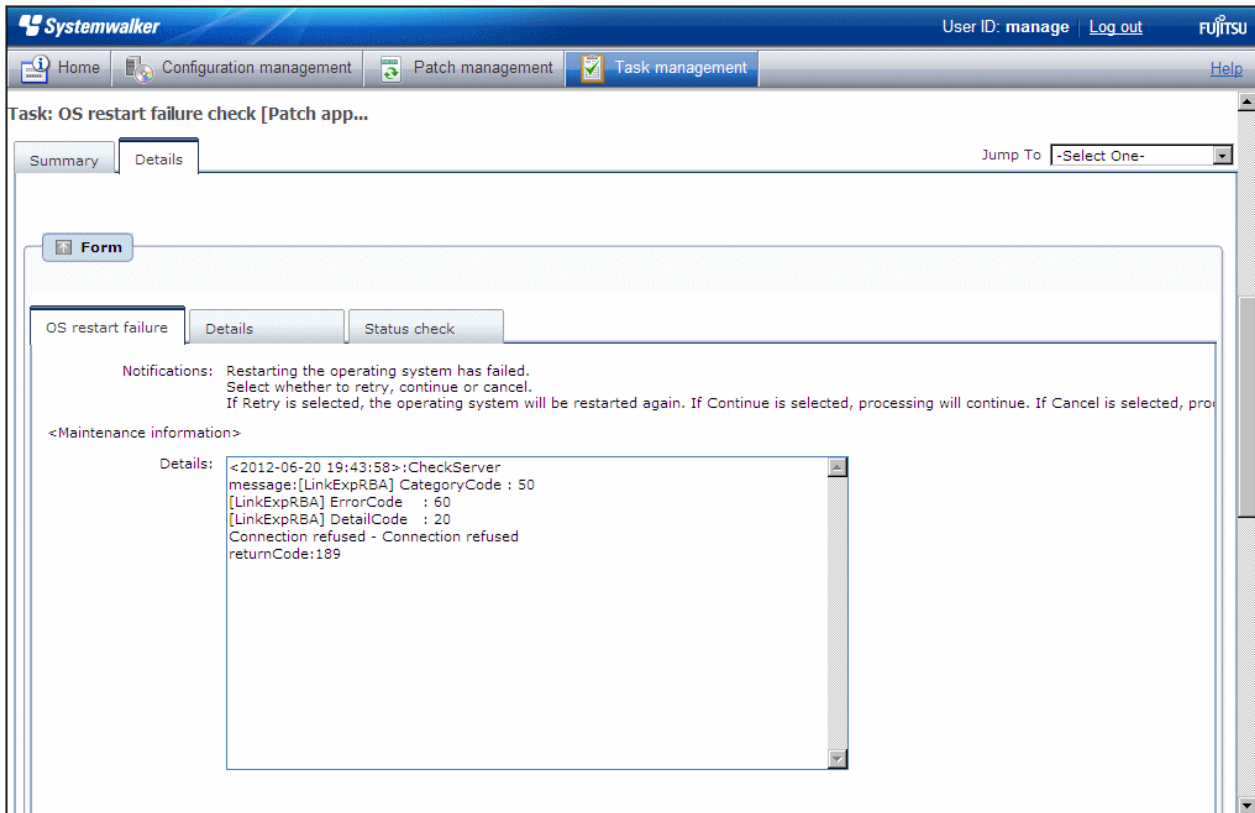
Click **Continue** to ignore the error and continue processing.

Click **Cancel** to end the process.

4.2.12 OS Restart Failure Check

An "OS restart failure check" task is generated when the operating system has failed to restart.

The operating system is restarted when a restart is required after the patch has been applied and when **Yes** has been specified for **Restart operating system after execution** in the application settings. If **No** is specified for **Restart operating system after execution** in the application settings, the operating system will not be restarted even if the operating system needs to be restarted after the patch is applied. Also, if there is no need to restart the operating system after the patch is applied, the operating system will not be restarted, regardless of the settings for **Restart operating system after execution**.



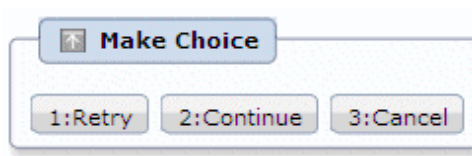
If an "OS restart failure check" task is generated, a log will be output to the **Details** field in the **OS restart failure check** tab, indicating the type of error that has occurred.

Refer to the "returnCode" information. The following table shows the expected values and their meaning:

Keyword	returnCode	Meaning
All	189	If one of the following values has been output for "message", this means that the connection for network communications with the business server has failed. [LinkExpRBA] CategoryCode: 50

Keyword	returnCode	Meaning
		<p>[LinkExpRBA] ErrorCode: 80</p> <p>[Actions]</p> <p>Check the following items:</p> <ul style="list-style-type: none"> - The file transfer infrastructure may not have been set up on the business server. Check whether the file transfer infrastructure has been set up. - The business server may have stopped. Check the operational status of the business server. - The file transfer infrastructure may not be running on the business server. Start the file transfer infrastructure. <p>[Windows]</p> <p>Restart the "Systemwalker File Transfer Library Control" service.</p> <p>[Linux]</p> <p>Execute the following command:</p> <pre># service FJSVInkbs start</pre> <ul style="list-style-type: none"> - There may be an error with the IP address of the business server that is specified in the "hosts" file. Check the IP address specified in the "hosts" file. - If the remote server is a PC server with a TCP/IP connection, the number of connection requests on the business server may have exceeded the maximum number of requests that can be simultaneously processed by WinSock. - The connection may have been blocked by a firewall on the communication path. - If the business server is running Windows, the connection may have been blocked by security settings such as the Windows firewall. - If the situation still does not change even after you have taken the appropriate action and then retried the processing, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support. <p>If one of the following values has been output for "message", this means that a timeout has occurred during communications with the business server:</p> <p>[LinkExpRBA] CategoryCode: 50</p> <p>[LinkExpRBA] ErrorCode: 60</p> <p>[Actions]</p> <p>The following are the possible causes of the problem:</p> <ul style="list-style-type: none"> - The business server may be stopped. - The business server may have slowed down. - The network may be under high load. <p>Check these possible causes and then try again.</p> <p>If the situation still does not change despite the retry attempt, collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.</p>
	Other	Collect investigation data using the problem investigation data collection command (swcfmg_collectinfo), and then contact Fujitsu technical support.

Make Choice panel



Click **Retry** to restart the operating system again.

Click **Continue** to ignore the error and continue processing.

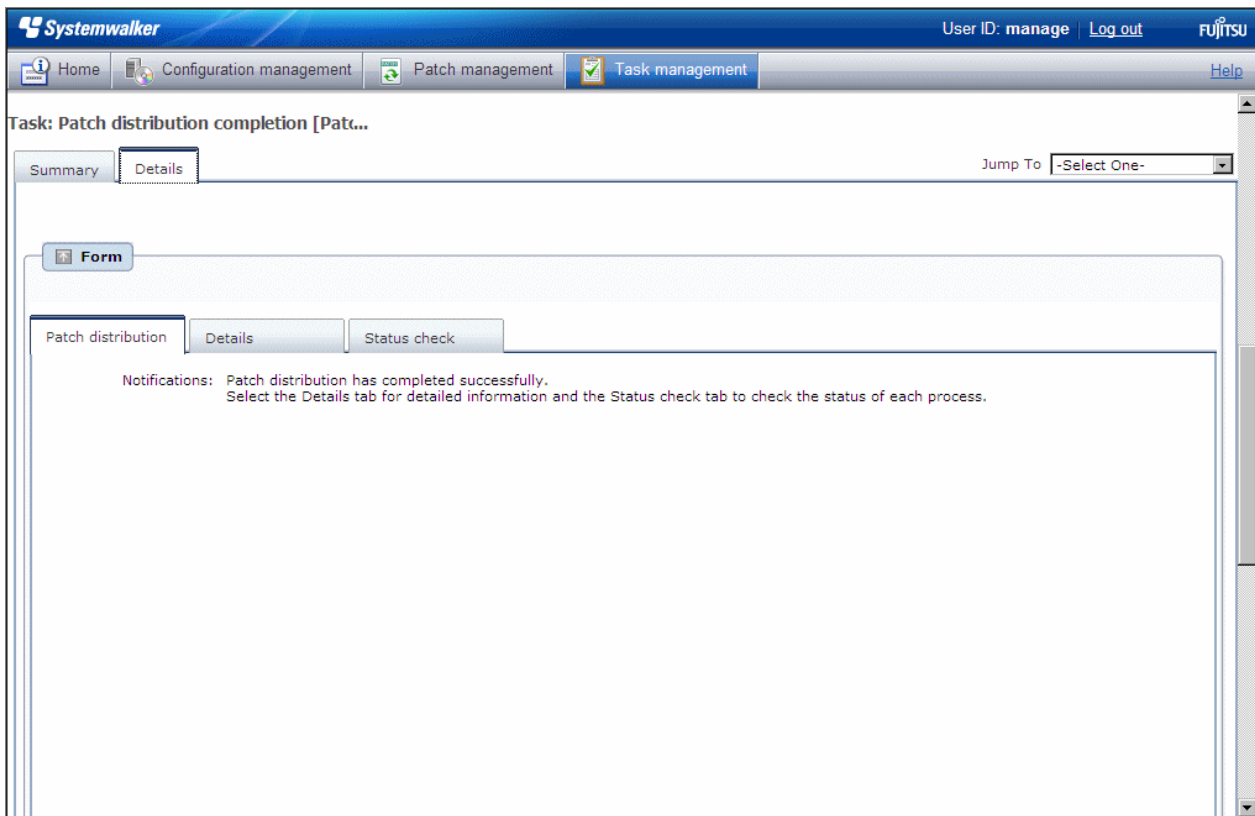
Click **Cancel** to end the process.

4.2.13 Patch Distribution Completion

If patch distribution has been performed normally, this task is generated at the end.

No user action is required for the "patch distribution completion" task. Once patch distribution has completed, the status changes automatically.

This means that these tasks are not displayed in the task list. They can be viewed by selecting **My Completed Tasks** from the **Task Filters** pull-down menu.

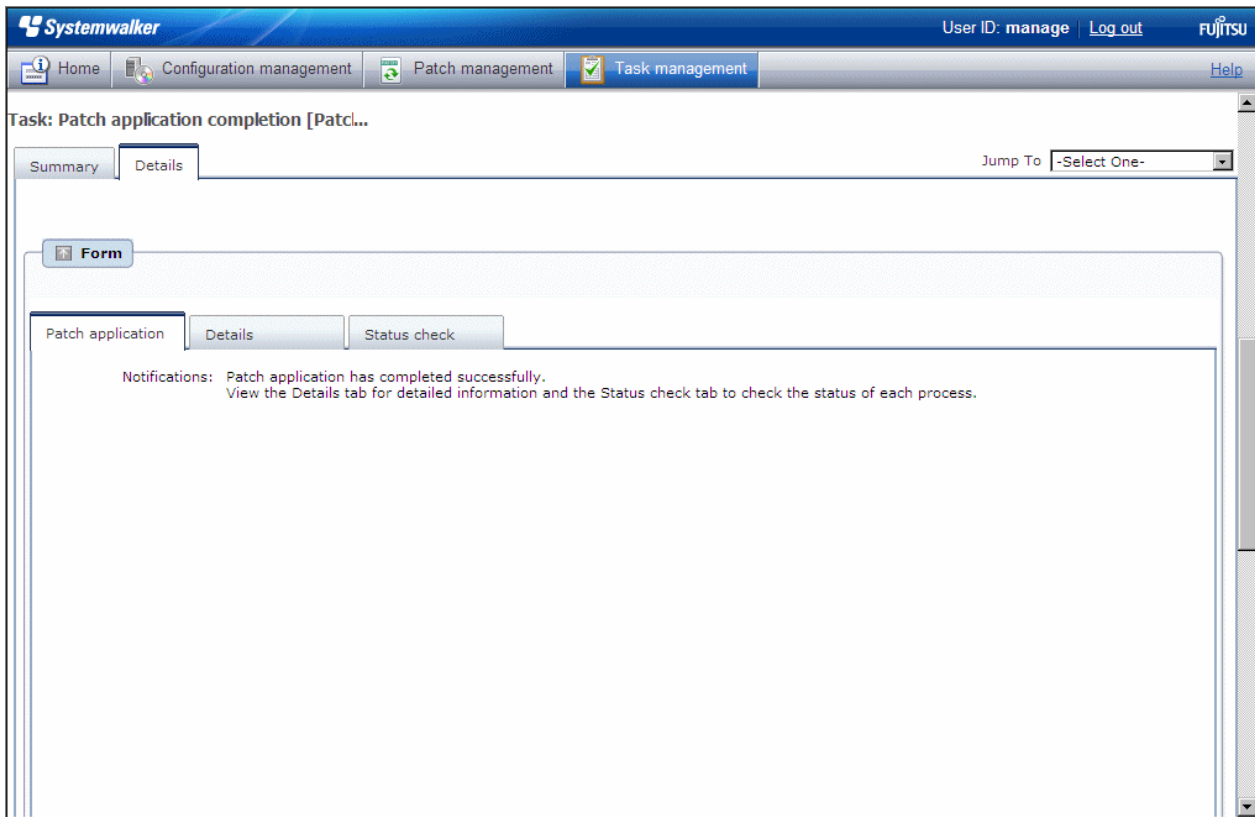


4.2.14 Patch Application Completion

If patch application has been performed normally, this task is generated at the end.

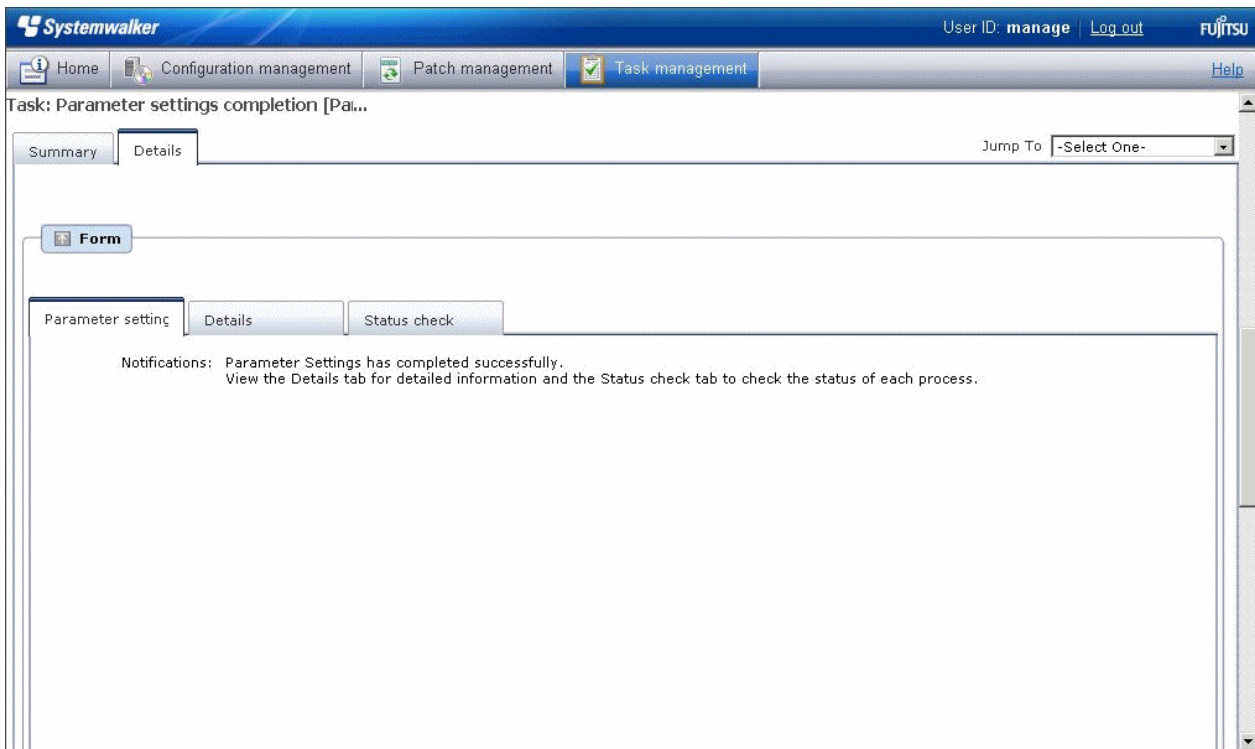
No user action is required for the "patch application completion" task. Once patch application has completed, the status changes automatically.

This means that these tasks are not displayed in the task list. They can be viewed by selecting **My Completed Tasks** from the **Task Filters** pull-down menu.



4.2.15 Parameter Settings Completion

If parameters have been configured normally, this task is generated at the end.



4.2.16 Script Execution Completion

If scripts have been executed normally, this task is generated at the end.

Task: Script execution completion [Script...]

Summary Details Jump To:

Form

Script execution c Details Status check

Notifications: Script execution has completed successfully.
View the Details tab for detailed information and the Status check tab to check the status of each process.