

Systemwalker Service Catalog Manager V15.1.0

A decorative horizontal band with a dark blue background and abstract, glowing green and cyan wave-like patterns and light streaks.

Installation Guide

Windows/Linux

B1WS-1054-01ENZ0(00)
July 2012

Preface

Purpose of This Document

This document explains the installation and setup procedure of Systemwalker Service Catalog Manager V15.1.

The purpose of this manual is as follows:

- To learn to be able to install Systemwalker Service Catalog Manager.
- To learn to be able to set up Systemwalker Service Catalog Manager.

Intended Readers

This document is intended for people who install and set up Systemwalker Service Catalog Manager.

This document assumes that readers already have the following knowledge:

- Basic knowledge of the operating system being used.

Structure of This Document

This document is structured as follows:

[Chapter 1 Installation](#)

Explains the installation.

[Chapter 2 Setup](#)

Explains the setup.

[Chapter 3 Unsetup](#)

Explains the unsetup.

[Chapter 4 Uninstallation](#)

Explains the uninstallation.

[Chapter 5 Modifying Installation Environment](#)

Explains how to modify the installation environment.

[Chapter 6 Operations](#)

Explains how to start and stop Systemwalker Service Catalog Manager.

[Appendix A Operation Environment](#)

Explains operation environment of Systemwalker Service Catalog Manager.

[Appendix B Port Number](#)

Explains the port numbers used by Systemwalker Service Catalog Manager.

[Appendix C Uninstall \(middleware\)](#)

Explains the Uninstall (middleware).

Conventions Used in This Document

The following names and symbols are used for explanation in the manuals.

- Product name
The manuals refer to Systemwalker Service Catalog Manager V15 as "Systemwalker Service Catalog Manager", omitting "V15".
- Manual name
 - The manual sometimes refers to themselves as "this document".

- The titles of the manuals for this product are sometimes abbreviated to "Installation Guide" or "Operation Guide" for example, omitting "Systemwalker Service Catalog Manager V15" in front of the manual name.

- Operating system specific information

This document provides the information about server operating systems using this product that is common to both the Windows version and the Linux version. Read only the information that is relevant to the operating system for the server that is being used.

Information that is only relevant to particular operating systems is distinguished from common information by attaching the following symbols:

- **Headline【Windows】**

The entire description of the title and sub-header is a topic specific to the Windows edition.

- **Headline【Linux】**

The entire description of the title and sub-header is a topic specific to the Linux edition.

If the description differs between the Windows and Linux editions, each description is distinguished by adding words "For Windows system, ..." and "For Linux system, ..." and explained separately.

- Symbols

- [] symbols

Window names, menu names and window item names provided by Systemwalker Service Catalog Manager are surrounded by these symbols.

- Symbols used in command

The symbols used with commands are explained below:

Entry example

```
[ PARA= { a | b | c | ... } ]
```

Meaning of each symbol

Symbol	Meaning
[]	Items enclosed in square brackets are optional.
{ }	Select one of the items enclosed in braces ({ }).
_	When all optional items enclosed in square brackets ([]) are omitted, the default value indicated by an underscore (_) is used.
	Select one of the items separated by vertical bars.
...	The item immediately before the ellipsis (...) can be repeatedly specified.

- Symbols used in the manual

The following note types are used in the manuals:



This note type highlights particularly important points.



This note type highlights information that is worth remembering.

Information

This note type indicates additional reference information.

See

This note type indicates references to other sources.

- Notations of Operating Systems

This document abbreviates Operating systems as follows.

Official name	Abbreviation
Microsoft(R) Windows Server(R) 2008 Standard	Windows
Microsoft(R) Windows Server(R) 2008 Enterprise	
Red Hat Enterprise Linux 6 (for Intel64)	Linux
Red Hat Enterprise Linux 6 (for x86)	
Red Hat Enterprise Linux 5 (for Intel64)	
Red Hat Enterprise Linux 5 (for x86)	

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Chapter 1 Installation

This chapter explains how to install software on the server.



The procedure described in this chapter requires the administrative privileges to execute.

1.1 Installation on Server

This section explains how to install software on the Server.

1.1.1 Pre-installation Tasks

The following tasks must be performed before installing software on the server.

Confirm the installation requirements

Refer to “[Appendix A Operation Environment](#)” and confirm that the installation environment meets the installation requirements.

Check Port Numbers

This product uses port numbers shown in “[B.1 Port Number List](#)”. Installation will fail if some port numbers are already used.

Make sure that the port numbers are not used before installation.

You can use operating system’s netstat command to check whether the port numbers are used. Refer to the command help or the manuals on how to use netstat.

Follow the steps below to install the software if the port numbers are already used.

1. Stop the applications or services that are using the ports.
2. Install the software.
3. Modifying port number of this product.
4. Restart the applications or services that were using the ports.

Check Firewall Function

If this product is to be installed in the environment where firewall function is used, it is necessary to set required communication (ports) be allowed in the firewall. Refer to “[B.1 Port Number List](#)” for the information on the required ports and set “port numbers on which the connections from external servers to be accepted” for each server. Refer to OS manuals for the information on how to set required communication (port) be allowed in the firewall.

Confirm parameters

The following values are set during installation. Confirm the values in advance.

- Installation folder

Setting the SMTP server

Systemwalker Service Catalog Manager requires the E-mail function. Prepare the environment where E-mail can be used.

1.1.2 Installation Flow

A flow of installation is explained below.

There is one Systemwalker Service Catalog Manager installation DVD.

Insert DVD and execute the install command. The following settings windows will be displayed one by one. Set the items required on each window

1. Select functions
2. Select installation destination
3. Confirms the installation settings

1.1.3 Installation【Windows】

This section explains the installation procedure when the server runs Windows.

Execute installation

1. Log in as the administrator.
Login as the administrator to the server on which Systemwalker Service Catalog Manager is being installed.
2. Insert the DVD-ROM to the DVD-ROM device.
Insert the DVD-ROM entitled "Systemwalker Service Catalog Manager V15 Media pack (15.1.0) Disc No. 1/1" to the DVD-ROM device.
3. The function selection window will be displayed.
The installer will be started automatically to display the function selection window. Execute swsetup.exe to start the installer in case it does not start automatically.
Select [Install on server].



4. The Installation Wizard window will be displayed.

To continue installation, click the [Next] button.

To terminate installation, click the [Cancel] button.

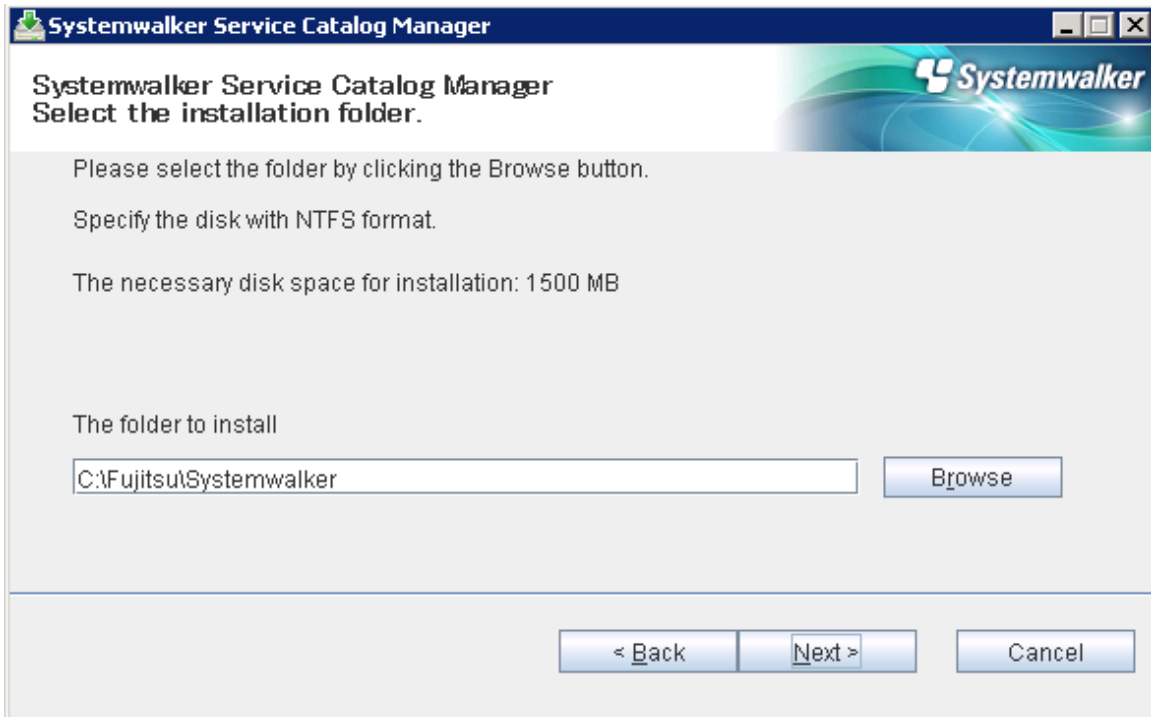


5. Specify the installation folder.

To install on the folder displayed, click the [Next] button.

To change the installation folder, click the [Browse] button and select the installation folder. Then, click the [Next] button.

To terminate installation, click the [Cancel] button. To go back to the previous window, click the [Back] button.



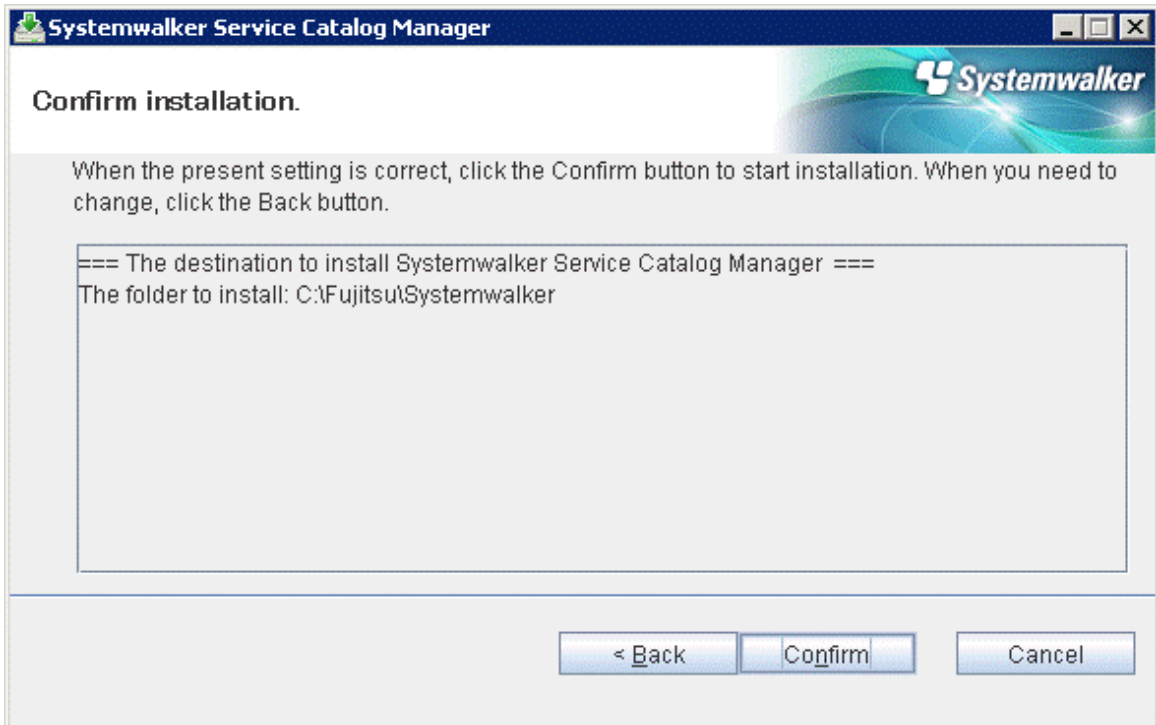
The installation folder entered must be alphanumeric character, colon(:), underscore(_), minus(-) and slash(/) within 25 characters.

Space characters cannot be specified.

6. Confirm the installation settings

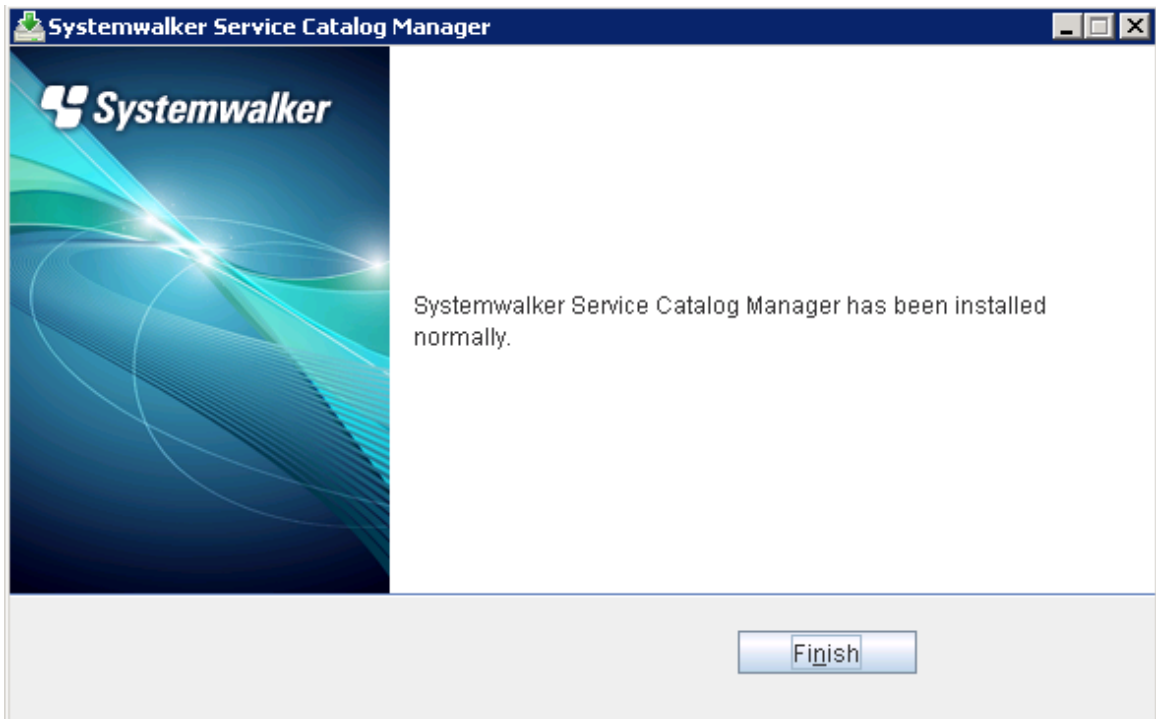
To start installation using the displayed settings, click the [Confirm] button.

To terminate installation, click the [Cancel] button. To go back to the previous window, click the [Back] button.



7. Confirm the completion

Click the [Finish] button to complete.



1.1.4 Installation[Linux]

This section explains the installation procedure when the server runs Linux.

Execute the install command

1. Log in as the super user.

Login as the super user to the server on which Systemwalker Service Catalog Manager is being installed.

2. Insert the DVD-ROM to the DVD-ROM device

Insert the DVD-ROM entitled "Systemwalker Service Catalog Manager V15 Media pack (15.1.0) Disc No. 1/1" to the DVD-ROM device

3. Mount the DVD-ROM.

Use following command to mount the DVD-ROM.

The installer will fail to start if DVD-ROM is mounted by auto-mounting daemon (autofs) because "noexec" is specified as a mount option in this case.

```
# mkdir <DVD-ROM mount point>
# mount -t iso9660 -r /dev/cdrom <DVD-ROM mount point>
```

4. Execute the install command.

Execute the install command of Systemwalker Service Catalog Manager.

```
# cd <DVD-ROM mount point>
# ./swsetup
```

5. The welcome message will be displayed.

Press the return key.

```
=====
Systemwalker Service Catalog Manager Setup
                V15.1.0
All Rights Reserved, Copyright(c) FUJITSU LIMITED 2010-2012
=====
Welcome to Systemwalker Setup!
The setup program install Systemwalker Service Catalog Manage.

Press ENTER.
```

6. The Select the installation confirmation message will be displayed.

To continue installation, enter [1]. To terminate installation, enter [q]

```
<< Select the installation >>

1. Install on Server

=====
Select one of the items above.
[q,number]
=>
```

7. The installation confirmation message will be displayed.

To continue installation, enter [y]. To terminate installation, enter [n]

```
Systemwalker Service Catalog Manager
Do you want to start installing?
[y,n]
=>
```

Confirm the installation settings

Confirm the installation settings.

To start installation using the settings displayed, enter [y]. To terminate installation, enter [q].

```
=== The directory to install ===
The destination to deploy a program.(Can't Change): /opt
The destination to deploy the setting file.(Can't Change): /etc/opt
The destination to deploy a temporary file.(Can't Change): /var/opt

Do you install it by this setting?
[y,q]
=>
```

Start installation

The installation starts.

```
installing...
```

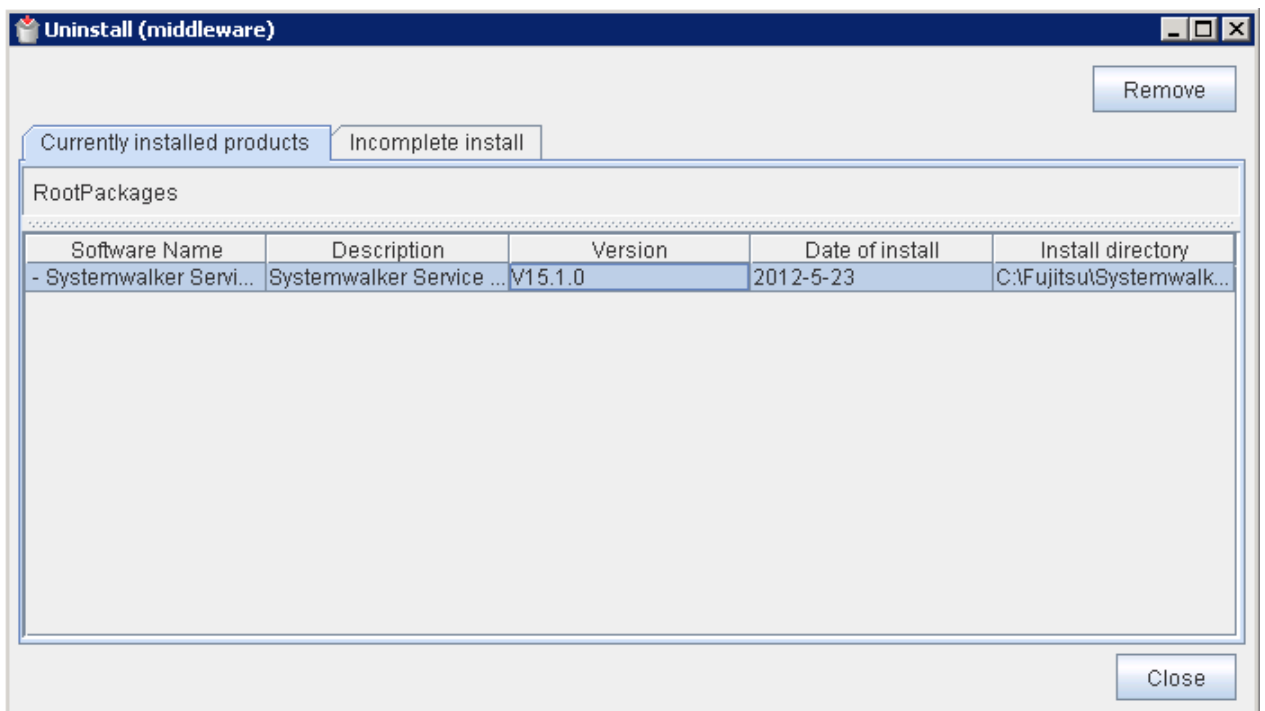
1.2 Checking Installed Products

This section explains how to check products that are already installed.

【Windows】

1. Select [Uninstall and manage software] on [Start] > [Program] > [Fujitsu].

The “Uninstall(middleware)” window will be displayed.



2. Click [Close] to finish.

Information

Product information will appear in “Incomplete install” tab if installation failed with an error. After removing the error cause, remove the product information from “Incomplete install” tab as appropriate.

Linux

1. Execute following command.

```
/opt/FJSVcir/cimanager.sh -c
```

”Uninstallation and management (middleware)” will start and list of installed products will be displayed.

2. Enter the number for the product to see the details of the product information.

```
Uninstallation and management (middleware) is being loaded...

Software already installed
1. Systemwalker Service Catalog Manager V15.1.0

Enter the number of software to be uninstalled.
[number,q]
=>1

Systemwalker Service Catalog Manager V15
  Description: Systemwalker Service Catalog Manager
  Version: V15.1.0
  Company name: Fujitsu Limited
  Installation directory: /opt
  Installation date: 2012-05-05

Do you want to start uninstalling?
[y,b,q]
q
```

3. Enter “b” to go back to previous information, or enter “q” to quit.

Note

Be careful not to enter “y”. Otherwise, the selected product will be uninstalled.

Chapter 2 Setup

This chapter explains how to setup the server.



The procedure described in this chapter requires the administrative privileges to execute.

2.1 Setup the Server

This section explains how to set up the server.

2.1.1 Tasks before Setup

Before setting up the server, the following tasks must be performed without fail.

Confirm installation

Confirm that the procedure described in “[1.1 Installation on Server](#)” is completed.

2.1.2 Setup[Windows]

This section explains the procedure for setting up the server.



The "SWCTMG_HOME" which is used in command description is set as the system environment variable by the installer.

Execute setup command on the command prompt which is executed after complete installation.

Execute the setup command

1. Login as the administrator.

Login as the administrator to the server where Systemwalker Service Catalog Manager is being set up.

2. Start the setup procedure.

```
%SWCTMG_HOME%\setup\swctmg_setup.sh <parameters>
```

In <parameter>, all of the following parameters must be specified in order from No.1. Also, an ASCII space character must be put between parameters. Refer to “[B.1 Port Number List](#)” for the information on the port numbers used by Systemwalker Service Catalog Manager.

Setup Parameter List

No.	Parameter name	Mandatory	Explanation
1	HOSTNAME	Yes	Host name or IP address of CT-MG server. It is used in the setting of accessible host to the database and access URL to each portal page. Example: 10.0.0.1
2	AS_ADMIN_USER	Yes	User name of Java EE execution environment. It will be set to the user name for the administrator of Java EE execution environment. Example: Administrator

No.	Parameter name	Mandatory	Explanation
3	AS_ADMIN_PASSWORD	Yes	Password of Java EE execution environment. It will be set to the password for the administrator of Java EE execution environment. Example: User1234
4	AS_ADMIN_DOMAIN_PORT	Yes	Port number for Java EE execution environment. It will be set to the admin port number of Java EE execution environment. Example: 4848
5	PGS_SERVER	Yes	Only localhost is allowed to be specified.
6	PGS_PORT	Yes	Port number to be used to connect to the database. Example: 5443
7	SMTP_HOST	Yes	Host name of SMTP server. Specify the host name or IP address of the SMTP server that was prepared in “ 1.1.1 Pre-installation Tasks ”. Example: smtp.example.com
8	SMTP_PORT	Yes	Port number of SMTP server. Specify the port number of the SMTP server that was prepared in “ 1.1.1 Pre-installation Tasks ” Example: 25
9	JMS_BROKER_PORT	Yes	Port number of JMS used by Java EE execution environment. Example: 7676
10	CTMG_WS_LISTENER_PORT	Yes	HTTP listener port number of ctmg-instance. That is, the port used when accessing CT-MG by a browser. Example: 8080

Example:

```
%SWCTMG_HOME%\setup\swctmg_setup 10.0.0.1 Administrator User1234 4848 localhost 5443 smtp.example.com
25 7676 8080
```



Note

Port numbers must be specified by numeric letters in the 1 to 65535 range.

AS_ADMIN_PASSWORD must be specified by ASCII letters and at least 8 characters in length.

Start setting up

Following message will be displayed when setup procedure starts.

```
swctmg_setup: INFO: 101: Systemwalker Service Catalog Manager setup start
```

Confirm the completion

Following message will be displayed when setup procedure completes.

```
swctmg_setup: INFO: 102: Systemwalker Service Catalog Manager setup end.
```



Depending on the environment, it takes around several to 10 minutes for setup to complete. Do not terminate the command while it is running.

2.1.3 Setup[Linux]

This section explains the procedure for setting up the server.

Execute the setup command

1. Log in as the super user.

Login as the super user to the server where Systemwalker Service Catalog Manager is being set up.

2. Using the following command, execute the setup procedure.

```
/opt/FJSVctbss/setup/swctmg_setup.sh <parameter>
```

Refer to the parameter list in “[2.1.2 Setup\[Windows\]](#)” for details of <parameter>.

Start the setup

The setup procedure starts.

```
swctmg_setup: INFO: 102: Systemwalker Service Catalog Manager setup start
```

Confirm the completion

Confirm that the setup procedure has completed.

```
swctmg_setup: INFO: 102: Systemwalker Service Catalog Manager setup end
```


Chapter 3 Unsetup

This chapter explains how to unsetup the server.



Note

The procedure described in this chapter requires the administrative privileges to execute.

3.1 Unsetup the Server

This section explains how to unsetup the server.

3.1.1 Tasks before Unsetup

Save the resources

Save the environment resources as required.

Refer to “4.4 Backup and Recovery” in the “Operation Guide” for details.



Information

A database user of this product is "pgctbss".

3.1.2 Unsetup[Windows]

This section explains how to unsetup the server.

Execute the unsetup command

1. Login as the super user.

Login as the administrator to the server from which Systemwalker Service Catalog Manager is being unsetup.

2. Use the following command to execute the unsetup procedure.

```
%SWCTMG_HOME%\setup\bin\swctmg_unsetup <parameters>
```

In <parameter>, all of the following parameters must be specified in order from No.1. Also, an ASCII space character must be put between parameters. Refer to “B.1 Port Number List” for the information on the port numbers used by Systemwalker Service Catalog Manager.

Parameter List for unsetup

No.	Parameter name	Mandatory	Explanation
1	AS_ADMIN_USER	Yes	User name of the administrator of Java EE execution environment. Example: Administrator
2	AS_ADMIN_PASSWORD	Yes	Password of the administrator of Java EE execution environment. Example: User1234
3	AS_ADOMIN_DOMAIN_PORT	Yes	Admin port number of Java EE execution environment. Example: 4848

Example:

```
%SWCTMG_HOME%\setup\swctmg_unsetup Administrator User1234 4848
```



Note

Port number must be specified by numeric letters in the 1 to 65535 range.

Confirm execution

Confirmation message of the execution of unsetup will be displayed.

Enter “y” if you want to execute, or enter “n” if you want to cancel the execution, then press the enter key.

```
swctmg_unsetup: INFO: 103: Are you sure you want to start unsetup Systemwalker Service Catalog Manager? (y/n)[n]
```

Start unsetup

Start message of the execution of unsetup will be displayed.

```
swctmg_unsetup: INFO: 104: Systemwalker Service Catalog Manager unsetup start.
```

Confirm the completion

Following message will be displayed when the unsetup procedure completes.

```
swctmg_unsetup: INFO: 106: Systemwalker Service Catalog Manager unsetup end
```

3.1.3 Unsetup[Linux]

This section explains the unsetup procedure of the server.

Execute the unsetup command

1. Login as the super user.

Login as the super user to the server where Systemwalker Service Catalog Manager is being unsetup.

2. Using the following command, execute the unsetup procedure.

```
/opt/FJSVctbss/setup/swctmg_unsetup.sh <parameter>
```

3. Refer to the parameter list in [”3.1.2 Unsetup\[Windows\]”](#) for details on <parameter>.

Confirm execution

Confirmation message of the execution of unsetup will be displayed.

Enter “y” if you want to execute, or enter “n” if you want to cancel the execution, then press the enter key.

```
swctmg_unsetup: INFO: 103: Are you sure you want to start unsetup Systemwalker Service Catalog Manager? (y/n)[n]
```

Start the unsetup

Start message of the execution of unsetup will be displayed.

```
swctmg_unsetup: INFO: 104: Systemwalker Service Catalog Manager unsetup start.
```

Confirm the completion

Confirm that the unsetup procedure has completed.

```
swctmg_unsetup: INFO: 106: Systemwalker Service Catalog Manager unsetup end.
```

3.1.4 Tasks after Unsetup

This section explains the tasks to be performed after completing the server unsetup.

Delete the database

Delete the files located below the following data dictionary of the database as required.

【Windows】

```
%SWCTMG_HOME%\pgctbss\data
```

【Linux】

```
/var/opt/FJSVctbss/pgsql/data/
```

Chapter 4 Uninstallation

This chapter explains how to uninstall software on the server.



The procedure described in this chapter requires the administrative privileges to execute.

4.1 Uninstall the Server

This section explains how to uninstall the Server.

4.1.1 Tasks before Uninstallation

The following tasks must be performed without fail before uninstalling the server.

Execute unsetup

If Systemwalker Service Catalog Manager has not been unsetup, it must be unsetup before uninstalled. Refer to “[Chapter 3 Unsetup](#)” for details of unsetup.



Unsetup must be done before uninstallation. Otherwise, resources such as registered database service will never be removed.

Terminate applications

Terminate all the applications. If resources such as disks and registries that Systemwalker Service Catalog Manager may use are being used during uninstallation, the uninstallation may fail.

4.1.2 Uninstallation Flow

A flow of uninstallation procedure is explained below.

When the uninstall command is executed, the following settings windows will be displayed one by one. Set the items required on each window.

【Windows】

- Execute uninstallation
- Start uninstallation
- Confirm the completion

【Linux】

- Execute uninstallation command
- Start uninstallation
- Confirm the completion

4.1.3 Uninstallation【Windows】

This section explains the uninstallation procedure when the server runs Windows.

Execute uninstallation

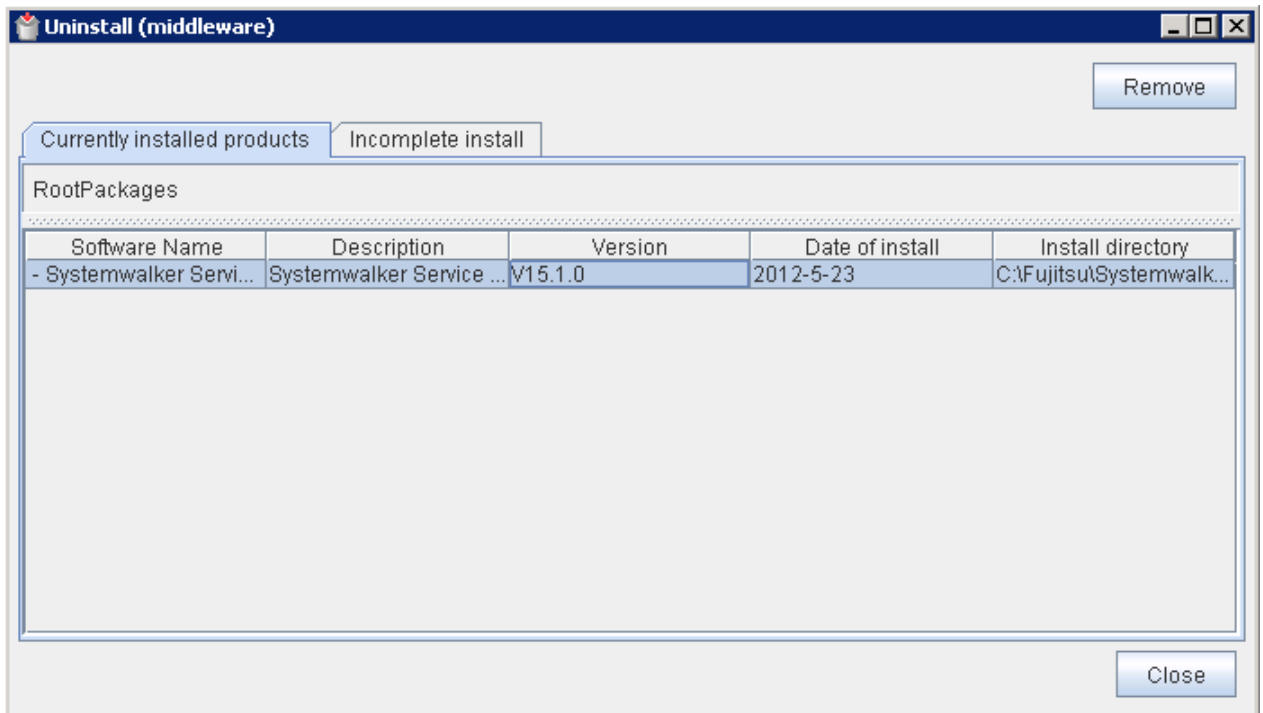
1. Login as the administrator.

Login as the administrator to the server on which Systemwalker Service Catalog Manager is being uninstalled.

2. Select the product.

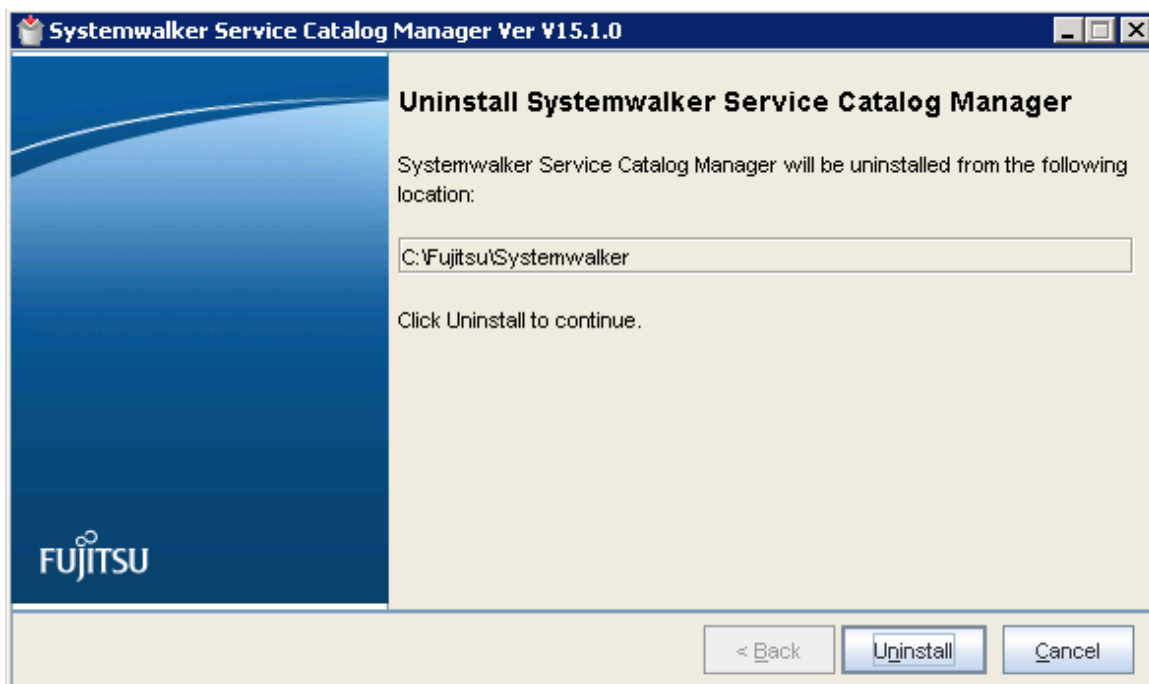
Select [Uninstall and manage software] on [Start] > [Program] > [Fujitsu].

The following window will be displayed. Select “Systemwalker Service Catalog Manager” and click the [Remove] button.



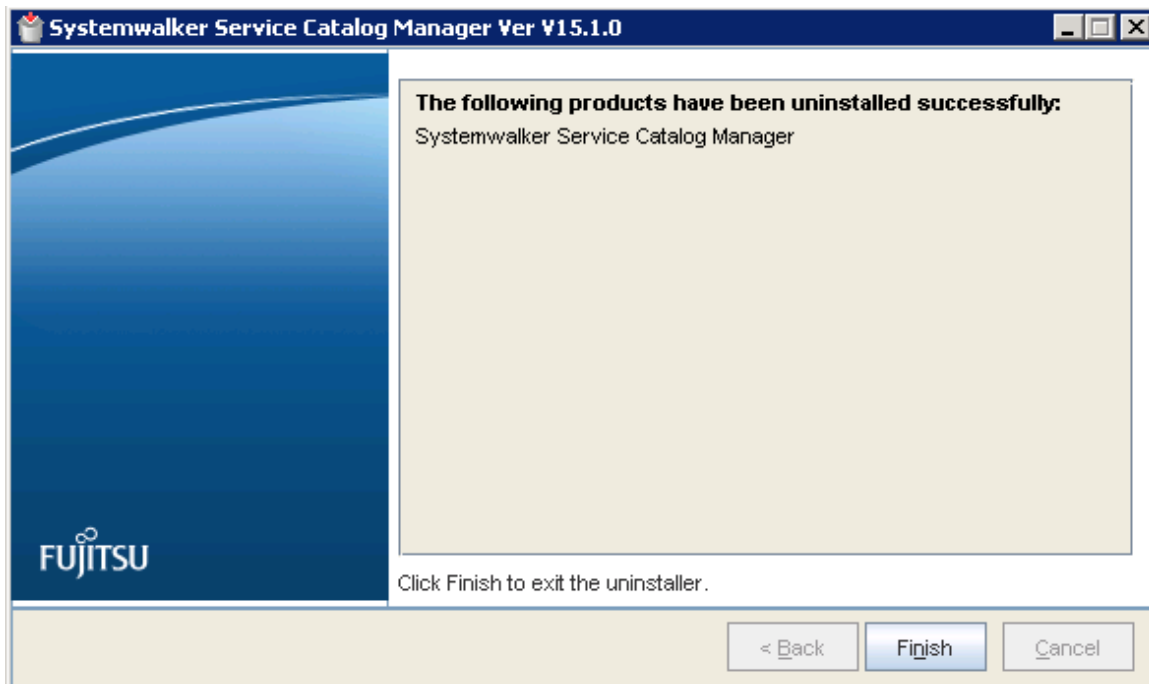
Start uninstalling

To continue uninstalling, click the [Uninstall] button. To terminate uninstallation, click the [Cancel] button.



Confirm the completion

Click the [Finish] button.



4.1.4 Uninstallation[Linux]

This section explains how to uninstall the server.

Execute the uninstall command

1. Login as the super user.

Login as the super user to the server on which Systemwalker Service Catalog Manager is being uninstalled.

2. Execute the uninstall command.

Execute the uninstall command of Systemwalker Service Catalog Manager.

```
# /opt/FJUSvcir/cir/bin/cimanager.sh -c
```

3. Select the product to be uninstalled.

Enter the number of the product to be uninstalled. To uninstall [1. Systemwalker Service Catalog Manager], enter [1].

```
Loading Uninstaller...

Currently installed products
1. Systemwalker Service Catalog Manager V15.1.0

Type [number] to select the software you want to uninstall.
[number,q]
=>
```

4. The uninstallation confirmation message will be displayed.

To continue uninstallation, enter [y], To terminate uninstallation, enter [q]. To go back to the previous window, enter [b].

```
Systemwalker Service Catalog Manager
Description: Systemwalker Service Catalog Manager
Version: V15.1.0
```

```
Company name: Fujitsu Limited
Installation directory: /opt
Installation date: 2012-05-05
```

```
Starting the uninstall of the software. Are you sure you want to continue?
[y,b,q]
=>
```

Start uninstalling

Following message will be displayed when uninstallation starts.

```
Uninstalling...
```

Confirm the completion

Following message will be displayed when uninstallation completes.

```
The following products have been uninstalled successfully:
  Systemwalker Service Catalog Manager
```

```
Exiting Uninstaller.
```

4.1.5 Tasks after Uninstallation

A following folder is kept after uninstallation.

【Windows】

```
%SWCTMG_HOME%\logs
```

【Linux】

```
/opt/FJSVctbss/logs
```

Remove the folder manually.

Chapter 5 Modifying Installation Environment

This chapter explains how to modify the installation environment of Systemwalker Service Catalog Manager.

5.1 Modifying Port Number of Server

This section explains how to modify the port number used by the Server of this product.

The port numbers explained in this section can be modified by commands. Execute them on Command Prompt or console.



- Systemwalker Service Catalog Manager must be running in order to execute the commands.
- The modification will become effective after restarting Systemwalker Service Catalog Manager Server service.
- The admin port number of Java EE execution environment must be specified as a command option in the case it has been modified to the value other than “4848”. Refer to “[B.2.1 Admin Port Number of Java EE Execution Environment](#)” for the information on how to check the port number.

Refer to “[5.5 Options of Admin Command](#)” for the information on the command option.

The explanation for the commands in this section assumes that the options are specified by the following environment variable.

【Windows】

%OPTION%

【Linux】

\$OPTION

5.1.1 Modifying Admin Port of Java EE Execution Environment

Use following command to modify the setting.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" set %OPTION% server.http-service.http-listener.admin-listener.port=<PORT NO>
```

【Linux】

```
/opt/FJSVctbss/glassfish/bin/asadmin set $OPTION server.http-service.http-listener.admin-listener.port=<PORT NO>
```

5.1.2 Modifying Http Listener Port Number

Use following command to modify the setting.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" set %OPTION% server.http-service.http-listener.http-listener-1.port=<PORT NO>
```

【Linux】

```
/opt/FJSVctbss/glassfish/bin/asadmin set $OPTION server.http-service.http-listener.http-listener-1.port=<PORT NO>
```


5.1.3 Modifying HTTP SSL Listener Port Number

Use following command to modify the setting.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" set %OPTION% server.http-service.http-listener.http-listener-2.port=<PORT NO>
```

【Linux】

```
/opt/FJSSVctbss/glassfish/bin/asadmin set $OPTION server.http-service.http-listener.http-listener-2.port =<PORT NO>
```

5.1.4 Modifying IIOP Listener Port Number

Use following command to modify the setting.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" set %OPTION% server.iiop-service.iiop-listener.orb-listener-1.port=<PORT NO>
```

【Linux】

```
/opt/FJSSVctbss/glassfish/bin/asadmin set $OPTION server.iiop-service.iiop-listener.orb-listener-1.port=<PORT NO>
```

5.1.5 IIOP Listener Port Number for SSL Communication

Use following command to modify the setting.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" set %OPTION% server.iiop-service.iiop-listener.SSL.port=<PORT NO>
```

【Linux】

```
/opt/FJSSVctbss/glassfish/bin/asadmin set $OPTION server.iiop-service.iiop-listener.SSL.port=<PORT NO>
```

5.1.6 Modifying IIOP Listener Port Number for Client Authentication of SSL Communication

Use following command to modify the setting.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" set %OPTION% server.iiop-service.iiop-listener.SSL_MUTUALAUTH.port=<PORT NO>
```

【Linux】

```
/opt/FJSSVctbss/glassfish/bin/asadmin set $OPTION server.iiop-service.iiop-listener.SSL_MUTUALAUTH.port=<PORT NO>
```

5.1.7 Modifying RMI registry connection port number used by JMX connector

Use following command to modify the setting.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" set %OPTION% server.admin-service.jmx-connector.system.port=<PORT NO>
```

【Linux】

```
/opt/FJSVctbss/glassfish/bin/asadmin set $OPTION server.admin-service.jmx-connector.system.port=<PORT NO>
```

5.1.8 Modifying JMS Host Port Number

Use following command to modify the setting.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" set %OPTION% server.jms-service.jms-host.default_JMS_host.port=<PORT NO>
```

【Linux】

```
/opt/FJSVctbss/glassfish/bin/asadmin set $OPTION server.jms-service.jms-host.default_JMS_host.port=<PORT NO>
```

5.2 Modifying Port Number of Database

This section explains how to modify port number used by the database of this product.

The port number of database is used as the port number on which the database service accepts the connection from the clients as well as the port number Java EE connection pool uses when it connects to the database.

A flow when modifying the port number is shown below.

1. Modify the port number Java EE connection pool uses as the destination.
2. Stop Systemwalker Service Catalog Manager.
3. Modify the listening port number of database server.
4. Start Systemwalker Service Catalog Manager.

5.2.1 Modifying Port Number of Connection Pool

Modify the destination port number used by connection pool so that it can connect to the database.

Use following command to modify the setting.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" set server.resources.jdbc-connection-pool.BSSPool.property.portNumber=<PORT NO>
```

【Linux】

```
/opt/FJSVctbss/glassfish/bin/asadmin set server.resources.jdbc-connection-pool.BSSPool.property.portNumber=<PORT NO>
```

5.2.2 Stopping Systemwalker Service Catalog Manager

Stop Systemwalker Service Catalog Manager. Refer to “[6.1.2 Stop](#)” for details.

5.2.3 Modifying Listening Port Number of Database

1. Open the following file using text editor.

【Windows】

```
%SWCTMG_HOME%\pgctbss\data\postgresql.conf
```

【Linux】

```
/var/opt/FJSVctbss/pgctbss/data/postgresql.conf
```

2. Modify the value of “port” item.

Example: to change the port from 5432 to 5433

Before modifying:

```
port = 5432
```

After modifying:

```
port = 5433
```

5.2.4 Starting Systemwalker Service Catalog Manager

Start Systemwalker Service Catalog Manager. Refer to “[6.1.1 Start](#)” for details.

5.3 Modifying Mail Server

This section explains how to change the setting of mail server.

Use following command to modify the setting.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" set %OPTION% server.resources.mail-resource.mail/  
BSSMail.host=<Mail server>
```

【Linux】

```
/opt/FJSVctbss/glassfish/bin/asadmin set $OPTION server.resources.mail-resource.mail/  
BSSMail.host=<Mail server>
```

5.4 Changing Administrator’s Password of Java EE Execution Environment

This section explains how to change Administrator’s password of Java EE execution environment.

The administrator’s password explained in this section can be modified by commands. Execute them on Command Prompt or console.



- Systemwalker Service Catalog Manager must be running in order to execute the commands.
- The modification will become effective after restarting Systemwalker Service Catalog Manager Server service.
- The admin port number of Java EE execution environment must be specified as a command option in the case it has been modified to the value other than “4848”. Refer to “[B.2.1 Admin Port Number of Java EE Execution Environment](#)” for the information on how to check the port number.

Refer to “[5.5 Options of Admin Command](#)” for the information on the command option.

The explanation for the commands in this section assumes that the options are specified by the following environment variable.

【Windows】

```
%OPTION%
```

【Linux】

\$OPTION

Use following command to change

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" change-admin-password %OPTION%
```

【Linux】

```
/opt/FJSTbss/glassfish/bin/asadmin change-admin-password $OPTION
```

5.5 Options of Admin Command

This section explains the options of admin command.

The admin port number of Java EE execution environment must be specified as a command option in the case it has been modified to the value other than “4848”. Also the password of Java EE execution environment must be specified.

Refer to “[B.2.1 Admin Port Number of Java EE Execution Environment](#)” for the information on how to check the port number.

Specify following command options in the case the admin port number has been modified.

Option	Description
-p	Specify the admin port number of Java EE execution environment. If the port has been modified, the execution of the command will fail unless correct value is specified with this option.
-u	Specify the user name of the administrator of Java EE execution environment. The user name will be asked after invoking the command if this option is omitted.

Example: Modifying the admin port number of Java EE execution environment from “4849” to “4850”.

【Windows】

```
>"%SWCTMG_HOME%\glassfish\bin\asadmin" set -p 4849 -u Administrator server.http-service.http-listener.admin-listener.port=4849
Please enter the admin password>
server.http-service.http-listener.admin-listener.port = 4850
>
```

【Linux】

```
#!/opt/FJSTbss/glassfish/bin/asadmin set -p 4849 -u Administrator server.http-service.http-listener.admin-listener.port=4849
Please enter the admin password>
server.http-service.http-listener.admin-listener.port = 4850
#
```

Example: Specifying options to the environment variable OPTION

【Windows】

```
SET OPTION=-p 4849 -u Administrator
```

【Linux】

```
export OPTION="-p 4849 -u Administrator"
```

Chapter 6 Operations

This chapter explains the operations of this product.

6.1 Start/Stop

This section explains how to start and stop this product.

6.1.1 Start

This section explains how to start this product.

1. Start Database

Execute following command to start the database.

【Windows】

```
net start "Systemwalker Service Catalog Manager DB Service"
```

【Linux】

```
/opt/FJSVctbss/bin/swctmg_startdb.sh
```

2. Start Systemwalker Service Catalog Manager service

Execute following command to start Systemwalker Service Catalog Manager service.

【Windows】

```
net start "Systemwalker Service Catalog Manager Server"
```

【Linux】

```
service swctmgserver start
```

6.1.2 Stop

This section explains how to start this product.

1. Stop Systemwalker Service Catalog Manager service

Execute following command to stop Systemwalker Service Catalog Manager service.

【Windows】

```
net stop "Systemwalker Service Catalog Manager Server"
```

【Linux】

```
service swctmgserver stop
```

2. Stop Database

Execute following command to stop the database.

【Windows】

```
net stop "Systemwalker Service Catalog Manager DB Service"
```

【Linux】

```
/opt/FJSVctbss/bin/swctmg_stopdb.sh
```

6.2 Accessing to Portal

This section explains how to access the portals provided by this product.

This product provides Admin Portal (administrative user interface) and Marketplace Portal.

6.2.1 Accessing to Admin Portal

To access the login screen of Admin Portal, start a web browser and enter following URL as the address.

The first operator is created when setup is completed. This operator is initially assigned the following credentials:

- User ID: administrator
- Initial password: admin123

Login to admin portal with above credentials.

Accessing to Admin Portal

```
http://[server host name]:[port number]/fujitsu-bss-portal/
```

Accessing to marketplace specific Admin Portal

```
http://[server host name]:[port number]/fujitsu-bss-portal/shop/updateMarketplace.jsf?  
mId=[marketplace ID]
```

Parameter	Description
server host name	Specify the host name or IP address of the server where this product is installed.
port number	Specify the HTTP listener port number specified in “ Chapter 2 Setup ” Refer to “ B.2.2 HTTP Listener Port Number ” to check the port number currently used.
marketplace ID	Specify the ID of the marketplace. The ID is generated when the Operator registers the marketplace.

The URL for accessing marketplace specific Admin Portal is notified to the Marketplace Owner by a mail when the marketplace is registered.

6.2.2 Accessing to Marketplace Portal

There are two way to access Marketplace Portal as follows.

- Accessing to the login screen by specifying URL in the web browser.
- Accessing from Admin Portal you are already logged in.

Accessing by specifying URL

Start a web browser and specify following URL as the address.

```
http://[server host name]:[port number]/fujitsu-bss-portal/marketplace?mId=[marketplace ID]
```

Parameter	Description
server host name	Specify the host name or IP address of the server where this product is installed.
port number	Specify the HTTP listener port number specified in “ Chapter 2 Setup ” Refer to “ B.2.2 HTTP Listener Port Number ” to check the port number currently used.
marketplace ID	Specify the ID of the marketplace.

Parameter	Description
	The ID is generated when the Operator registers the marketplace.

Accessing from Admin Portal

Log in Admin Portal and click [Go to marketplace] menu.

Appendix A Operation Environment

This Appendix explains operation environment of Systemwalker Service Catalog Manager.

A.1 Hardware Resources

This section explains hardware resources required to install and operate Systemwalker Service Catalog Manager.

A.1.1 Recommended Hardware Resources

Hardware type	Condition
Model	PRIMERGY, PRIMEQUEST 1000 Series
CPU	Intel(R) Xeon(R) 3GHz or above
Memory (excluding OS)	4GB or more

A.1.2 Disk Capacity

Static disk capacity:

Product name	Required disk capacity for installation
Systemwalker Service Catalog Manager	Installation directory: 1.5GB

A.2 Software Resources

This section explains software resources to install Systemwalker Service Catalog Manager.

A.2.1 Supported OS

Either one of the following basic software is required.

【Windows】

- Microsoft(R) Windows Server(R) 2008 R2 Standard
- Microsoft(R) Windows Server(R) 2008 R2 Enterprise

【Linux】

- Red Hat Enterprise Linux 6 (for x86)
- Red Hat Enterprise Linux 6 (for Intel64)
- Red Hat Enterprise Linux 5 (for x86)
- Red Hat Enterprise Linux 5 (for Intel64)

Information

【Windows】

- Systemwalker Service Catalog Manager runs as a 32bit application on Windows Server 2008 R2.

【Linux】

- Systemwalker Service Catalog Manager runs in 32bit compatible mode on Red Hat Enterprise Linux 5(for Intel64) or Red Hat Enterprise Linux 6(for Intel64).

A.2.2 Required Software

Following software is required.

- Web browser

Either one of the following web browsers is required.

- Windows(R) Internet Explorer(R) 8
- Windows(R) Internet Explorer(R) 9
- Google Chrome 14.0
- Mozilla(R) Firefox(R) 4.0-13.0
- Adobe(R) Reader(R) 8 or Adobe(R) Reader(R) 9



Before accessing this product, configure the browser as follows according to the browser's setup procedure.

- Enable browser's cookie setting.
- The web browser environment on Systemwalker Service Catalog Manager server cannot be used.

A.2.3 Exclusive Software

There is no exclusive software for Systemwalker Service Catalog Manager.

Appendix B Port Number

This appendix explains the port numbers used by Systemwalker Service Catalog Manager.

B.1 Port Number List

The default port numbers used by Systemwalker Service Catalog Manager are shown below.

Server

The port numbers on which the connections from external servers to be accepted.

Function	Port number / protocol used	Configurable
HTTP listener	8080/tcp	Yes

The port number used internally.

Function	Port number / protocol used	Configurable
HTTP SSL listener	8181/tcp	Yes
JavaEE HTTP listener	4848/tcp	Yes
JMX connector listener	8686/tcp	Yes
JMS host	7676/tcp	Yes
IIOP listener	3700/tcp	Yes
IIOP SSL listener	3820/tcp	Yes
IIOP listener for client authentication of SSL communication	3920/tcp	Yes
Database port number	5443/tcp	Yes

Information

Refer to “[Chapter 5 Modifying Installation Environment](#)” for information on how to modify the port numbers marked configurable on the table above.

B.2 Checking Port Numbers

This section explains how to change port numbers used by this product.

The port numbers explained in this section can be modified by commands. Execute them on Command Prompt or console.

Note

- Systemwalker Service Catalog Manager must be running in order to execute the commands.
- The admin port number of Java EE execution environment must be specified as a command option in the case it has been modified to the value other than “4848”. Refer to “[B.2.1 Admin Port Number of Java EE Execution Environment](#)” for the information on how to check the port number.

Refer to “[5.5 Options of Admin Command](#)” for the information on the command option.

The explanation for the commands in this section assumes that the options are specified by the following environment variable.

[Windows]

%OPTION%

【Linux】

\$OPTION

B.2.1 Admin Port Number of Java EE Execution Environment

This section explains how to check the admin port number of Java EE execution environment.

Use following command to check.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" get %OPTION% server.http-service.http-listener.admin-listener.port
```

【Linux】

```
/opt/FJVSctmg/glassfish/bin/asadmin get $OPTION server.http-service.http-listener.admin-listener.port
```

In following example, the port number is the value just after “http-service.http-listener.admin-listener.port=”.

Example output:

```
server.http-service.http-listener.admin-listener.port=4848
```

B.2.2 HTTP Listener Port Number

This section explains how to check the HTTP listener port number.

Use following command to check.

【Windows】

```
"%SWCTMG_HOME%\glassfish\bin\asadmin" get %OPTION% server.http-service.http-listener.http-listener-1.port
```

【Linux】

```
/opt/FJVSctmg/glassfish/bin/asadmin get $OPTION server.http-service.http-listener.http-listener-1.port
```

In following example, the port number is the value just after “server.http-service.http-listener.http-listener-1.port=”.

Example output:

```
server.http-service.http-listener.http-listener-1.port=8080
```

Appendix C Uninstall (middleware)

"Uninstall (middleware)" is a tool used by Fujitsu middleware products. It performs information management for middleware products, and also, launching the uninstaller for removing these products from the installed systems.

C.1 Notes about the Uninstall (middleware)

C.1.1 Uninstall product

To uninstall this product, uninstall from "Uninstall (middleware)".

C.1.2 Notes about the Uninstall (middleware)

- This tool manages information about other Fujitsu middleware products even if <Product name>. For this reason, do not uninstall it unless absolutely necessary. If you have accidentally uninstalled this tool, re-install it as described below.

【Windows】

1. Log into the system using an account that has Administrator or root privileges.
2. Insert the media to the CD-ROM drive.
3. Start the installer.

```
<DVD-ROM drive>\CIR\cirinst.exe
```

【Linux】

1. Log into the system using an account that has Administrator or root privileges.
2. Insert the media to the CD-ROM drive.
3. Start the installer.

```
# < DVD-ROM mount point>/CIR/cirinst.sh
```

C.1.3 Uninstall the Uninstall (middleware) from the server

- If you uninstall this tool as described below.
 1. Check that there are no Fujitsu middleware products installed in the system.
You can check this by using "Uninstall (middleware)", which is launched by the command below.

【Windows】

Select [All Programs] > [Fujitsu] > [Uninstall (middleware)]

【Linux】

```
/opt/FJSVcir/cir/bin/cimanager.sh -c
```

-c : CUI

2. If no Fujitsu middleware products have been installed, then issue the command below.

【Windows】

```
%SystemDrive%\FujitsuF4CR\bin\cirremove.exe  
%ProgramFiles%\Fujitsu\FujitsuF4CR\bin\cirremove.exe
```

【Linux】

```
# /opt/FJSVcir/bin/cirremove.sh
```

3. At the uninstallation confirmation prompt, enter "y".

```
This software is a common tool of Fujitsu products.Are you sure you want to remove it?[y/n]:
```

Uninstallation will start.

4. After uninstallation, the directories and files listed below remain in the system. Delete them.

【Windows】

%SystemDrive%\FujitsuF4CR

%ProgramData%\Fujitsu\FujitsuF4CR

【Linux】

/var/opt/FJSVcir/

C.2 Messages output by FJSVcir

FSP_FJSVCIR_CIRINST: ERROR: 101: CIRINST101: Administrator privilege is required.

Description

The user does not have administrator privileges.

Action method

Login with administrator privileges and run the command again.

FSP_FJSVCIR_CIRINST: ERROR: 102: CIRINST102: Failed to create %s

Parameters

%s: Directory name

Description

Failed to create a directory during the installation.

Action method

Creating the directory might have failed for some reason. Run the installer again, or run cirinst command again. If the problem persists, check the system log.

FSP_FJSVCIR_CIRINST: ERROR: 103: CIRINST103: It is required at least %dMB

Parameters

%d: Disk spaces

Description

Insufficient disk space (at least 150 MB required).

Action method

Confirm that the system has sufficient disk spaces.

【Windows】 FSP_FJSVCIR_CIRINST: ERROR: 104: CIRINST104: Failed to copy CIR files.

【Linux】 FSP_FJSVCIR_CIRINST: ERROR: 104: CIRINST104: Failed to copy CIR installer files.

Description

Failed to copy files required for the installation.

Action method

Copying the files failed for some reason. Run the installer again, or run cirinst command again. If the problem persists, check the system log.

FSP_FJSVCIR_CIRINST: ERROR: 105: CIRINST105: Failed to copy JRE.

Description

Failed to copy JRE required for installation.

Action method

Copying the files failed for some reason. Run the installer again, or run cirinst command again. If the problem persists, check the system log.

FSP_FJSVCIR_CIRINST: ERROR: 106: CIRINST106: Failed to copy CIR

Description

Failed to copy files during the installation.

Action method

Copying the files failed for some reason. Run the installer again, or run cirinst command again. If the problem persists, check the system log.

FSP_FJSVCIR_CIRINST: ERROR: 107: CIRINST107: invalid option.

Description

An invalid option was specified.

Action method

Specify a valid option. [-c]: CUI

FSP_FJSVCIR_CIRINST: ERROR: 108: CIRINST108: JRE which should be deployed is not bundled.

Description

An appropriate JRE for this system is not bundled.

Action method

Confirm that the product supports the platform.

FSP_FJSVCIR_CIRINST: ERROR: 109: CIRINST109: Unsupported OS.

Description

Unsupported operating system.

Action method

Confirm that the product supports the operating system.

【Linux】

If the product supports the operating system, there may be insufficient redhat-lsb packages. Check whether the redhat-lsb packages are in the system. If they are not, add them then re-execute the installer.

FSP_FJSVCIR_CIRINST: ERROR: 185: CIRINST185: lsb_release was not found. Please install the package below.

- redhat-lsb

Description

lsb_release command was not found.

Action method

Add redhat-lsb package and then execute install again.

FSP_FJSVCIR_CIRINST: ERROR: 186: CIRINST186: lsb_release was not found.

Description

lsb_release command was not found.

Action method

Add the relevant package and then execute install again.

FSP_FJSVCIR_CIRINST: ERROR: 201: CIRINST201: Administrator privilege is required.

Description

The user does not have administrator privileges.

Action method

Login with administrator privileges and run the command again.

FSP_FJSVCIR_CIRINST: ERROR: 203: CIRINST203: Failed to delete files.

Description

Failed to delete FJSVcir files.

Action method

Deleting the files failed for some reason. Run cirremove command again. If the problem persists, check the system log.

FSP_FJSVCIR_CIRINST: ERROR: 205: CIRINST205: invalid option.

Description

Invalid option is specified.

Action method

No option is supported. Retry without any options.

Specified installation parameters file was not found.

Description

Specified installation parameters file was not found. (silent mode)

Action method

Specify the installation parameters file.

It failed to install. See log for details

Description

An error occurred during install. (silent mode)

Action method

Collect the files stored in the following directories.

【Linux】

/var/opt/FJSVcir/cir/logs/cirlog0.log.0

【Windows】

%SystemDrive%\FujitsuF4CR\cir\logs\cirlog0.log.0

%ProgramData%\Fujitsu\FujitsuF4CR\cir\logs\cirlog0.log.0

Parameters are invalid. Please specify valid parameters.

Description

Invalid option is specified. (silent mode)

Action method

Specify a valid option.

Failed in cancelling.

Description

An error occurred during cancelling.

Action method

【Linux】

Uninstall program using following command

•rpm -e FJSVctbss

Delte following filder;

•/opt/FJSVctbss

【Windows】

Uninstall following program using "Control Panel"- "Programs and Features".

- Systemwalker Service Catalog Manager

Delte following filder;

- <Systemwalker Service Catalog Manager install folder>/SWCTMG

C.3 Messages output by Uninstall (middleware)

It has already been running in another process.

Description

An attempt was made to start Uninstall (middleware) more than once. Alternatively, an attempt was made to start Uninstall (middleware) while the installer was starting.

Action method

End any Uninstall (middleware) that have already started. Alternatively, start Uninstall (middleware) after the installer has ended.

Specified option is invalid.

Description

An invalid option was specified.

Action method

Specify valid options and run the command again.

Please enter a valid option.

Description

An invalid character was entered. Valid characters are y, n, or item numbers.

Action method

Enter a valid character.

Failed to uninstall of the following software packages:

Description

Failed to uninstall the software listed in this message.

Action method

Confirm the information shown after this message and take the appropriate action.

Unable to uninstall the software as it is referred from more than one software.

Description

Failed to uninstall the software because it is used by other software.

Action method

No specific action is required.

Unable to uninstall the software as the software is mandatory.

Description

Failed to uninstall the software because it is required by another program.

Action method

No specific action is required.

Internal data is broken.

Description

Internal data used by this product is corrupt.

Action method

Collect the files stored in the following directories and contact Fujitsu technical support:

【Linux】

`/var/opt/FJSVCIR/cir/`

`/etc/opt/FJSVCIR/cir/CIR.properties`

【Windows】

`%SystemDrive%\FujitsuF4CR\cir\`

`%ProgramData%\Fujitsu\FujitsuF4CR\cir\`

Unable to uninstall the software you were about to uninstall as the existence of the software is a precondition for the operation of another software.

Description

Failed to uninstall the software because it is required by another program.

Action method

No specific action is required.

The program terminated abnormally.

Description

The program has terminated abnormally.

Action method

Collect the files stored in the following directories and contact Fujitsu technical support:

【Linux】

/var/opt/FJSVCIR/cir/

/etc/opt/FJSVCIR/cir/CIR.properties

【Windows】

%SystemDrive%\FujitsuF4CR\cir\

%ProgramData%\Fujitsu\FujitsuF4CR\cir\

An unexpected error has occurred during uninstall.

Description

An error occurred during uninstall.

Action method

Collect the files stored in the following directories and contact Fujitsu technical support:

【Linux】

/var/opt/FJSVCIR/cir/

/etc/opt/FJSVCIR/cir/CIR.properties

【Windows】

%SystemDrive%\FujitsuF4CR\cir\

%ProgramData%\Fujitsu\FujitsuF4CR\cir\

It failed to uninstall. See log for details.

Description

An error occurred during uninstall. (silent mode)

Action method

Collect the files stored in the following directories and contact Fujitsu technical support:

【Linux】

/var/opt/FJSVcir/cir/logs/cirlog0.log.0

【Windows】

%SystemDrive%\FujitsuF4CR\cir\logs\cirlog0.log.0

%ProgramData%\Fujitsu\FujitsuF4CR\cir\logs\cirlog0.log.0

[Notice] Need to restart for uninstall completion.

Description

Uninstallation was completed. (silent mode)

Action method

Restart the system.