

User Guide - English



ServerView Suite

ServerView Update Management

ServerView Operations Manager V6.10

Edition October 2012

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1 Introduction

ServerView Update Management allows you to manage updates for the firmware and software components of PRIMERGY servers. Update Management comprises the following applications:

- **Update Manager** provides a mechanism for managing updates and installing them on the monitored managed nodes.
- **Repository Manager** provides a mechanism for managing the repository:
 - view a list of updates contained in the repository
 - change properties of contents
 - update your local repository on the management station
 - create collections
- **Download Manager** provides a mechanism for checking for available updates and downloading new ones for the monitored managed nodes from the Fujitsu Technology Solutions web server to the local repository on the management station.
- **Configuration** provides a mechanism for defining the configuration settings for the
 - Update Manager
 - Repository Manager
 - Download Manager

1.1 Concepts

Update Management is based on a database concept where the GUIs and services communicate exclusively via the database:

1. The GUIs are used to define jobs for the services and write these jobs to the database.
2. The services retrieve their jobs from the database, process these in the background and write the results to the database.
3. The GUIs then display the results from the database.

The tasks performed by the various services are described below:

The **Inventory Service** reads the inventories of the PRIMERGY servers and writes the results to the database. (The inventory contains the entire hardware and software configuration data of a PRIMERGY server.)

The **Download Service** downloads updates from the download server into the repository.

 In addition to the download via the Download Service, you can also import updates from the ServerView Suite DVD 1 min. 7.812 (Windows) / 10.09.09 (Linux), max. 10.12.04 or the ServerView-Update DVD to the repository using the Repository Manager.

For the initial update (Update Manager Express) of your PRIMERGY server, load the updates from the ServerView Suite DVD 1 min. 7.812 (Windows) / 10.09.09 (Linux), max. 10.12.04 or the ServerView-Update DVD first because otherwise this process may take a very long time to complete due to the large volume of data. Since the DVD, which is published almost monthly, may not contain the latest updates, you should then download the latest updates using the Download Service.

The **Update Service** performs the following tasks:

1. It detects which updates are available for the individual PRIMERGY servers based on the inventories and repositories, and returns the result to the database so that this can be displayed in the GUI.
2. It uses the jobs you define in the GUI to transfer the updates from the repository to the PRIMERGY servers.

These interrelationships are illustrated in the following graphic.

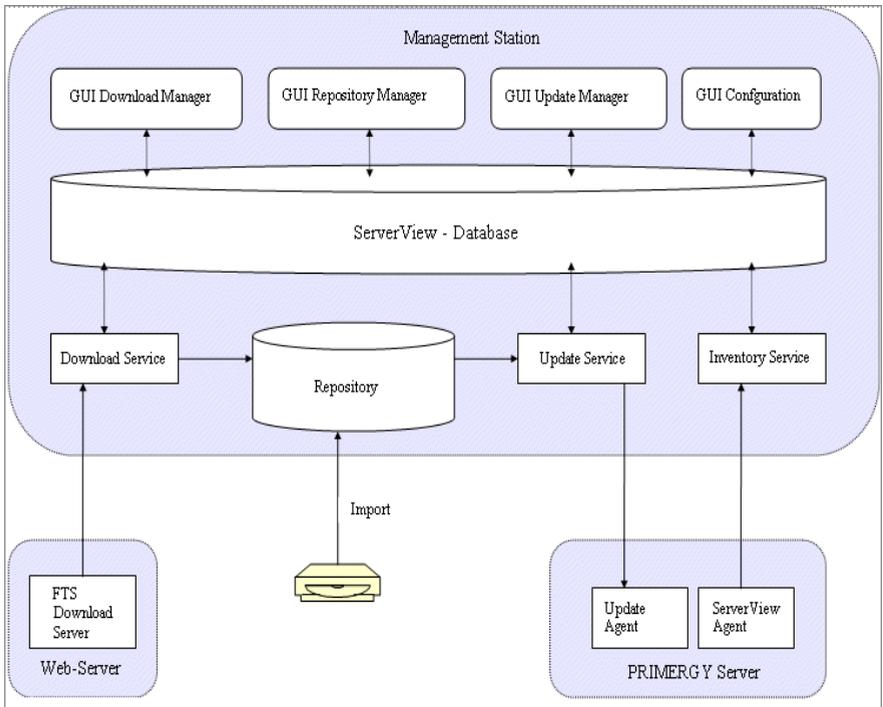


Figure 1: Interaction between the various services for Update Management

1.2 Prerequisites

You can get the applications ServerView Agents, ServerView Update Agent, ServerView Operations Manager from the:

- ServerView Suite DVD 1 (bundled with PRIMERGY server)
- ServerView Suite - Update DVD

ftp://ftp.ts.fujitsu.com/images/serverview /UPDATE_DVD_<vers>. <iso>

- Download section of the Fujitsu Technology Solutions Web server:

http://support.ts.fujitsu.com

1.2.1 Prerequisites on managed servers

Online server allows components to be installed only while the operating system is running.

- ServerView Agents for Windows or Linux must be installed.
- ServerView Update Agent (Windows \geq V5.10.02, Linux \geq V5.10-01) must be installed
- In a firewall configuration on the managed nodes, the following ports must be enabled:
 - 161 (snmp)
 - 3171 (ServerView Update Agent)
 - 3172 (SCS)

Security

If you need security (configuration with AccountCheck) before performing an update on the managed server, you can either use Single Sign-On or you must specify a user group.

- Single Sign-On

Requirements:

- ServerView agents as of V 5.0
- ServerView update agent as of V 5.0
- The certificate from the Central Management Station (CMS) must be copied to the managed nodes.

- Specify a user group

Windows: during ServerView Update Agent installation

Linux: during ServerView Update Agent installation default settings are configured

Default user group: GFUSER

Default user: globalflash with password globalflash

You can change the default settings by editing the file **LinuxF-wuAgent.cfg**.

Inventory

Requirements of ServerView Agents for serving firmware of

- Broadcom LAN controller

Windows: PSP Broadcom_LAN_BACS/_E / ...

Linux: SV Update Agent

- RAID controller

Linux: ServerView RAID

1.2.2 Prerequisites on connection blades

To prepare a connection blade for update via Update Manager, configure it as follows:

1. Open the graphical user interface of the connection blade, e.g. via a browser:

http://<ipadr connection blade>

2. Security > Secure Shell:

Set the following values:

Admin Mode: Enable

SSH Version 1: Disable

SSH Version 2: Enable

1.2.3 Prerequisites on TFTP server

A TFTP server is necessary for updating connection blades / management blades.

- ServerView Agents for Windows or Linux \geq V5.10 must be installed.
- ServerView Update Agent (Windows \geq V5.10.02, Linux \geq V5.30-00) must be installed

TFTP server Windows

- Fujitsu Technology Solutions PXE server (\leq 1.13.0000, \geq 1.15.0000) must be installed.

Only the TFTP service has to be active!

For installation of TFTP Server Windows see ["Installation under Windows" on page 51](#).

TFTP server Linux

- The software package for tftp service (firewall configuration must allow tftp) must be installed

For installation of TFTP server Linux see ["Installation under Linux" on page 52](#).

1.2.4 Prerequisites on the Central Management Station (CMS)

On the central management station, ServerView Operations Manager must be installed.

1.2.4.1 Update Management Logon (OS=Windows)

Configuration

- Configuration during the menu-driven installation of the ServerView Operations Manager:

Step **Update Management Logon Information**

- During silent installation of the ServerView Operations Manager,
 - the user account is set to **Local System**
 - the ServerView Download Service is not started automatically.

You must change the user account manually.

- There are two ways to change the user account:
 - Modify ServerView Operations Manager > Step **Update Management Logon Information**
 - or
 - **Services - ServerView Download Service - Properties - Log On**

When you have changed the user account, you will need to restart the ServerView Download Service.

Services - ServerView Download Service - Restart

System Policy

If the account was set during installation of ServerView Operations Manager, this user will automatically get the right to logon as a service.

If the account was changed after installation of ServerView Operations Manager, check whether the account exists. If not, please add it.

Administrative Tools – Local Security Policy – Security Settings – Local Policies – User Rights Assignment – Log on as a service

The following applets use this logon and the ServerView Download Service:

- Configuration Wizard
- Download Manager
- Repository Manager

Format of the account

- local account: \.<user>
recommended: .\Administrator
- domain user account: <domain>\<user>

The remote database needs a domain user account

Requirements of this user account:

- Windows administration rights.
- Read/Write rights for SV OM installation directory
- Read/Write rights for local repository (if configured)
- Right to download (if Download Manager is configured)

You must add this account (e.g. Administrator) to SQL Server as described in the manual **ServerView Operations Manager Installation ...** under Windows in the chapter "**Adding a user account with SQL Server administrator rights**", if the following SQL Server instances are used:

- SQL Server 2008 or higher
- Remote database (regardless of version and edition)

1.2.4.2 Configuration of Update Management (Repository, ...)

Start the Configuration Wizard of Update Management and make the initial settings for Update Management:

- **ServerView Operations Manager - Base Configuration Wizard - Update Management**

or

- **ServerView Operations Manager - Update Management – Configuration**

The settings relate mainly to:

- the Update Repository
- the TFTP server
- the Download Service
- Proxy and mail

In the final phase of the Configuration Wizard, update data is imported into the repository.

1.2.4.3 Update Data

Update data is the latest updates of BIOS, firmware, agents or drivers for PRIMERGY servers.

You can get this data from the:

- ServerView Suite DVD 1
min. 7.812 (Windows) / 10.09.09 (Linux), max. 10.12.04
- ServerView - Update DVD
*ftp://ftp.ts.fujitsu.com/images/serveview /UPDATE_DVD_
<vers>.<iso>*
- from the Download section of the Fujitsu Technology Solutions Web server:

http://support.ts.fujitsu.com

There are two ways of maintaining the repository with the latest update data:

- Automatic maintenance

In the Download Manager, define a download task.

The task periodically checks and downloads the latest update data via the internet for servers with inventory data.

- Manual maintenance

In the Repository Manager, import update data from the latest Server-View Suite - Update DVD.

1.3 Notes on management stations

1.3.1 Shutdown and restart

A shutdown/restart of the management station is permitted if there are no servers with the job status **processing** on the **Server Details** tab in the Update Manager. Jobs with the status **waiting** (**Job Details** tab) are executed after the management station has been restarted, when the **Start Time** is reached.

A shutdown/restart of the management station is **not** permitted if there are any servers with the job status **processing** on the **Server Details** tab in the Update Manager.

1.3.1.1 Status after unplanned restart

After an unplanned restart of the management station, the **Job Details** dialog box may contain the following entries:

- Job Status: error
- Return Text: manager abort

1.3.1.2 Procedure for resolving the errors

- If the agent status on the **Server Details** tab is **ready**, you can regenerate the job by copying it (**Copy Job**).
- If the agent status is **error** or **busy**, first perform a cleanup and then recreate the job by copying it (**Copy Job**).

1.3.2 Updating the management station with components which needs a reboot

During rebooting the management station, the connection from the web browser (workstation) to the web server (management station) is interrupted.

After rebooting the management station, re-establish this connection (e.g. by pressing F5 on the workstation).

1.3.3 Multiple management stations

You can run multiple management stations in one network; however, these management stations must be responsible for different servers. This means that the server lists on the various management stations must be different.

1.4 Autonomous Support Packages (ASP)

Autonomous Support Packages (ASPs) are self-extracting, self-installing software packages that allow you to install BIOS, firmware, agents or Add-on-products on your server.

To install BIOS, firmware, agents or Add-on-products on a server component, you can call up the appropriate ASP directly.

1.5 PRIMERGY Support Packages (PSP)

A PRIMERGY Support Package (PSP) is the basic element for installing and updating drivers and software products on your PRIMERGY server.

A PSP comprises several packages, which contain the different versions of the same driver or software product.

1.5.1 Current PSP versions

The current versions of PSPs are released with the ServerView Update DVD, a new version of which comes out approximately every two months.

PSPs can also be downloaded at

<http://support.ts.fujitsu.com/globalflash>



An overview of the components and server models that are supported by the currently released PSPs is provided in the Readme file for the relevant PSP.

1.5.2 Components of a PSP

Each PSP consists of the following elements:

- A zip archive containing the drivers or software products as well as the files required to install the PSP
- Release notes (**relnotes.txt**)
- A PSP description file (xml file)

PSP description file (xml file)

The description file contains the following information:

- Name of the PSP
- Details of the version and contents of the PSP
- Information on the installation priority of the PSP
- Description of all packages contained in the PSP

For each package contained in the PSP, information is provided on the version and on hardware and software dependencies, e.g. the chassis ID, system board ID, PCI ID, firmware or operating system version.

Based on the information contained in the description file, the update tool can check on the managed server whether the requirements of the hardware and software dependencies are fulfilled.

1.5.3 Product Detection of Primergy Support Packages

Product detection is available for most PSPs.

Requirements on the server:

- Primergy Support Package **FSC_SCAN**
- Tools **PrimeUp** >= V1.15.25

The version of the PSP **FSC_SCAN** and the **PrimeUp** tool which comes with the repository must be installed. (Always use the newest package version)

The ServerView Update Agent/GlobalFlash Agent calls the detection function automatically

- at every boot.
- or
- after an update is completed.

The results of the detection are displayed on Update Manager.

Case “Not installed”

Example:

The customer has installed the hardware. The drivers of related products have to be installed for using this hardware.

A "fake" PSP with version "0.0.0.0" is created to show the required product/driver.

Then a real PSP may be installed.

Case “Newer version installed”

Example:

The customer has installed a very new version of a product (perhaps beta), which is not actually produced as a PSP on the FTS site.

A "fake" PSP with version "99.99.99.99" is created, to protect the customers product against accidental overwriting/ updating by Update Manager.

If a PSP with this product/driver version or newer exists at a later date, the protection is canceled and the PSP may be installed/updated with the real PSP version belonging to this product/driver.

Case “Equal version installed”

Example:

The customer has installed the equal version by themselves, but not as a PSP (native).

A "fake" PSP with the real version is created.

This PSP may be updated to the real version or newer.

Case “Previous version installed”

Example:

The customer has installed an older version than the version of the actual PSP and the older version was not installed as a PSP, but by the customer themselves (native).

Because it is an older version than the version of the actual PSP, a "fake" PSP with version "x.x.99.99" is created. (x.x version of the actual PSP - 1).

An update to the actual version (real version) is possible.

1.5.4 Initial Installation of Primergy Support Packages

Initial installation is possible for all PSPs.

Requirements on the server:

- Primergy Support Package **FSC_SCAN**
- Tool **PrimeUp** >= V1.15.24

The version of the PSP **FSC_SCAN** and the **PrimeUp** tool which comes with the repository must be installed. (Always use the newest package version)

1.6 Notes on deleting servers from the ServerList

Deletion will be denied ...

Deletion of servers from the ServerList will be denied if update jobs with **Agent Status = busy** and **Job Details Status = transferring, transferred, flashing or flashed** exist.

Deletion will NOT be denied ...

Deletion of servers from the ServerList will not be denied if update jobs with **Agent Status = absent** and **Job Details Status = transferring, transferred, flashing, flashed or rebooting** exist.

To avoid error situations you must

- check the GlobalFlash Agent / Update Agent on the managed server and if necessary restart it.
- check the LAN connection on the managed server and if necessary repair it.
- do a manual cleanup via the Command Line Interface of the Update Manager.

Depending on the situation you must use `GFCLI -C` (= Cleanup) or `GFCLI -A -S` (= forced Cancel)

Cleanup will be done

- on the managed server.
- on the TFTP server (in the case a MMB flash).

1.7 Typographic conventions

The following typographic conventions are used in this manual:

Convention	Explanation
	Indicates various types of risk, namely health risks, risk of data loss and risk of damage to devices.
	Indicates additional relevant information and tips.
bold	Indicates references to names of interface elements.
<code>monospace</code>	Indicates system output and system elements for example, file names and paths.
monospace semibold	Indicates statements that are to be entered using the keyboard.
blue continuous text	Indicates a link to a related topic.
pink continuous text	Indicates a link to a location you have already visited.
<abc>	Indicates variables which must be replaced with real values.
[abc]	Indicates options that can be specified (syntax).
[key]	Indicates a key on your keyboard. If you need to enter text in uppercase, the Shift key is specified, for example, [SHIFT] + [A] for A. If you need to press two keys at the same time, this is indicated by a plus sign between the two key symbols.

Screenshots

Some of the screenshots are system-dependent, so some of the details shown may differ from your system. There may also be system-specific differences in menu options and commands.

1.8 ServerView Suite link collection

Via the link collection, Fujitsu Technology Solutions provides you with numerous downloads and further information on the ServerView Suite and PRIMERGY servers.

For ServerView Suite, links are offered on the following topics:

- Forum
- Service Desk
- Manuals
- Product information
- Security information
- Software downloads
- Training



The downloads include the following:

- Current software statuses for the ServerView Suite as well as additional Readme files.
- Information files and update sets for system software components (BIOS, firmware, drivers, ServerView agents and ServerView update agents) for updating the PRIMERGY servers via ServerView Update Manager or for locally updating individual servers via ServerView Update Manager Express.
- The current versions of all documentation on the PRIMERGY ServerView Suite.

You can retrieve the downloads free of charge from the Fujitsu Technology Solutions web server.

For PRIMERGY servers, links are offered on the following topics:

- Service Desk
- Manuals

- Product information
- Spare parts catalogue

Access to the ServerView link collection

You can reach the link collection of the ServerView Suite in various ways:

1. Via ServerView Operations Manager.

- Select **Help – Links** on the start page or on the menu bar.

This opens the start page of the ServerView link collection.

2. Via the ServerView Suite DVD 2 or via the start page of the online documentation for the ServerView Suite on the Fujitsu Technology Solutions manual server.



You access the start page of the online documentation via the following link:

<http://manuals.ts.fujitsu.com>

- In the selection list on the left, select **Industry standard servers**.
- Click the menu item **PRIMERGY ServerView Links**.

This opens the start page of the ServerView link collection.

3. Via the ServerView Suite DVD 1.

- In the start window of the PRIMERGY ServerView Suite DVD 1, select the option **Select ServerView Software Products**.
- Click **Start**. This takes you to the page with the software products of the PRIMERGY ServerView Suite.
- On the menu bar select **LINKS**.

This opens the start page of the ServerView link collection.

1.9 Documentation for the ServerView Suite

The documentation for the ServerView Suite can be found on the ServerView Suite DVD 2 supplied with each server system.

The documentation can also be downloaded free of charge from the Internet. You will find the online documentation at <http://manuals.ts.fujitsu.com> under the link **Industry standard servers**.

For an overview of the documentation to be found under **ServerView Suite** as well as the filing structure, see the ServerView Suite sitemap (**ServerView Suite – Site Overview**).

2 Overview

ServerView Update Management allows you to remotely apply the latest updates of BIOS, firmware and drivers onto PRIMERGY servers.

General usage

1. Configure Update Management (see also ["Prerequisites on the Central Management Station \(CMS\)" on page 16](#))
 - The Base Configuration Wizard is used to configure Update Management.

It opens automatically after new installation of ServerView Operations Manager:

- Base Configuration Wizard – **Update Management** step
 - Select **Yes**
 - Click **Start**
 - Configuration Wizard: Configure all necessary values
Note: Inventory data is collected automatically for all servers in the ServerList
- Base Configuration Wizard – **Inventory Management** step
 - Select "Yes"
 - Configure all necessary values
 - Go on to item 2 and further items.

- The Base Configuration Wizard is not used to configure the **Update Management** step.

- Go on to item 2
- Open one of the Update Management applets
- Configuration Wizard: Configure all necessary values

Note: Inventory data is collected automatically for all servers in the ServerList

- Go on to item 4 and further items.

2. Add managed servers to the ServerList of ServerView Operations Manager.
3. Create Inventory data.

There are two possible ways:

- Automatic maintenance

In the Inventory Manager, define a scheduled inventory task.

- Manual maintenance

In the Inventory Manager, define a manually started inventory task.

Following collecting of the inventory data and comparison between the inventory data and update data in the repository, the result will be shown in the update icon column of the ServerList and in Update Manager itself.

4. In Update Manager - **Update Details** tab, create update jobs.

Unless users create update jobs explicitly, managed servers will not be updated.

If you defined security settings for ServerView Update Agent, make sure the prerequisites are met before you create update jobs, see ["Prerequisites on managed servers" on page 12](#).

-
5. When the update job is completed, the inventory data and the repository are automatically compared again to ensure that the latest update data has been correctly applied to the managed server.

When upgrading Update Management components please observe the following recommendation to prevent connection problems with the components.

Recommended update sequence:

1. ServerView Update Manager
2. ServerView Update Agent on managed node
3. ServerView Update Agent on TFTP server

3 Update Procedures

The Update Manager enables you to update drivers, ServerView agents, update agents, firmware and BIOS globally and locally on PRIMERGY servers. You can use the update procedures described below to do this.

Which particular components can be updated with which procedure is described in the following files on the ServerView Suite DVD 1:

Windows:

*SVSSoftware\Software\ServerView\Windows\GlobalFlash\Agents\
OnlineFlash\primlist_win.htm*

Linux:

*SVSSoftware\Software\ServerView\Linux\GlobalFlash\Agents\
OnlineFlash\primlist_lx.htm*

3.1 Online update

This procedure allows you to update components under the control of the operating system that is currently running (Windows, Linux). In this case the Update Manager uses tools which are provided by the software vendors.

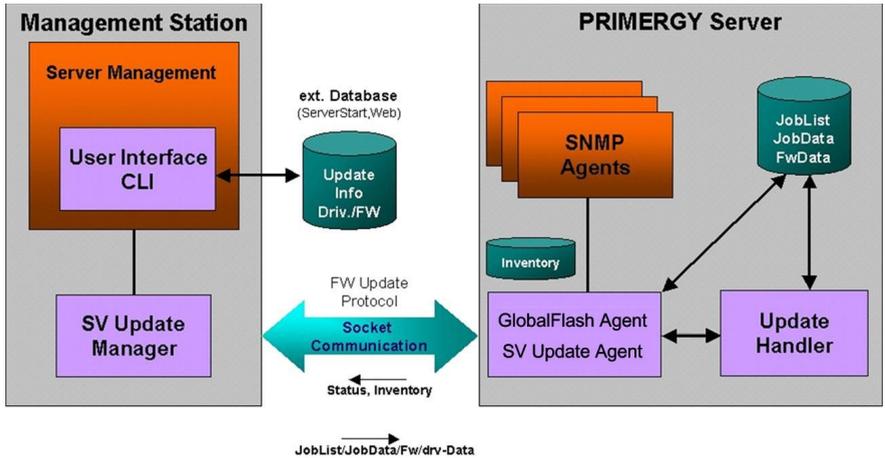


Figure 2: Diagram of the update procedure (online)

1. The Inventory Manager creates inventories by collecting information on the installed software and firmware components of all servers in the server list and storing this information in a database. The Inventory Manager can create the inventories either on command or cyclically.
2. The Update Manager compares the inventories entered in the database with the software and firmware components in the repository. Based on the differences arising from this comparison, it then creates a list of components and servers that need updating.
3. If you are updating via the graphical user interface select the components which are to be updated. If you are working with the CLI use the **-U** option to specify the repository from which the update data is to be taken.

4. The Update Manager fetches the update data required from the repository and defines the update jobs. In addition to the actual update data each online update job contains an update tool for the component concerned and the job control file with the required parameters.
5. The update jobs are transferred to the update agent (socket communication).
6. The update agent starts an update handler (an auxiliary routine of the agent), and this starts the update tool with the parameters required for the components concerned.
7. The values returned by the update tool are evaluated by the handler and returned to the agent.
8. The update agent updates the job status information.
9. The Update Manager fetches the current status and error information and presents it on the graphical user interface or, if you are using the CLI, places it in result files.
10. Depending on the request-specific parameters, the server may need to be rebooted by the management station at the end of the update operation in order to enable the updated components.

If you use the command line interface for the update, the reboot does NOT occur automatically. It must be explicitly executed with the command *GFCLI -R*.

The update procedure has then been completed.

3.2 Update via TFTP server

This procedure is used to update PRIMERGY system components which cannot be updated using the update tools available under Windows, Linux or DOS either at all or only with great effort, or to update autonomous hardware systems on which none of these three operating systems runs. These system components and hardware systems are updated via a ServerView Update Agent of the type **TFTP Server**.

The system components and hardware systems must be able to fetch an image from a TFTP server and to update themselves. They must have interfaces via which

- the configuration data can be read (e.g. version, name, MAC address, etc.).
- the required parameters (IP address, path name and image name on the TFTP server) can be set.
- the update procedure can be started.

The following control interface is currently implemented for this purpose in the Update Manager:

SNMP (reading) and HTTP (writing)

for updating a hardware system, e.g. the management blade of the blade servers BX600 and BX900



In the case of BX600 MMB S2 there may be two alternate management blades in operation (master and slave) which have just one joint update IP address for updating purposes. In this case when an update procedure takes place both management blades are always updated via this update IP address.

3.2.1 Updating a hardware system

Updating a hardware system taking a management blade as an example

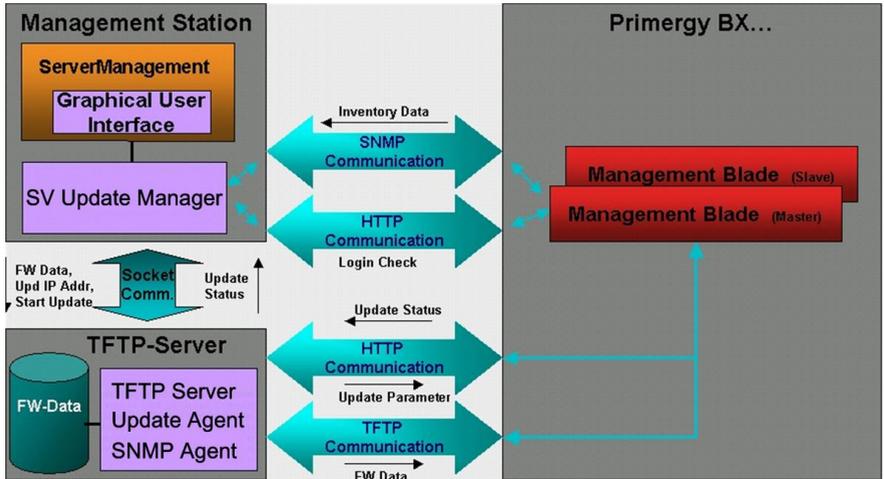


Figure 3: Diagram of the update procedure (management blade via TFTP server)

1. The Inventory Manager on the management server uses SNMP commands to fetch the required inventory data from the management blade. When you are updating via the graphical user interface the data is presented on the graphical user interface.
2. The Update Manager compares the inventories entered in the database with the software and firmware components in the repository. Based on the differences arising from this comparison, it then creates a list of components and servers that need updating.
3. BX600 MMB S2 only:

The login for HTTP is checked. This is done directly with the management blade using HTTP commands.

Update via Update Manager Linux: Login is checked during update.

4. The object-specific update job for the management blade is generated by the Update Manager.
5. The Update Manager transfers the update images and the update job (incl. update handler and update tool) to the TFTP server and starts the update job (socket communication between the Update Manager and the update agent on the TFTP server).
6. The update agent starts the update handler, and this starts the update tool with the required parameters from the job control file supplied.
7. The update tool starts the dialog with the management blade and transfers the required update parameters using HTTP commands.
8. The download of the images from the TFTP server and the update procedure are then controlled completely by the management blade (TFTP communication).
9. The return values from the components involved are transferred in the reverse order from the update tool via the update handler to the update agent.
10. The update agent updates the job status information.
11. The Update Manager fetches the current status and error information and presents it on the graphical user interface or, if you are using the CLI, places it in result files.

The update procedure has then been completed.

3.3 Access to update data

To update the managed servers the Update Manager requires the corresponding update data. This data is contained in an repository with the following subdirectories:

<i>Agent-Win</i>	<i>Agent-Lx</i>	<i>BladeSystem</i>
<i>FibreChannelController</i>	<i>LanController</i>	<i>ManagementController</i>
<i>PrimSupportPack-Win</i>	<i>RemoteServiceBord</i>	<i>ScsiController</i>
<i>SystemBoard</i>	<i>Tools</i>	

The following options are available for accessing this data:

- Via the directory **Firmware** on the ServerView Suite DVD 1 or on the Update DVD.
- Via the Fujitsu Technology Solutions web server from which the update data can be saved to a repository which you have created on an arbitrary drive of the management server.

You can update this repository regularly by means of the Download Manager from the Fujitsu Technology Solutions web server.

Content of Update Data

Following a successful systemtest the new components will be added.

After their official release, new components (BIOS, firmware, agents, drivers) and new versions are added to the repository.

For additional information about Primergy Support Packages see PRIMERGY ServerView Suite DVD 1 under **Software Products - ServerView - Maintenance & Update - Update - PRIMERGY Support Packages - Info** column.



4 Installing ServerView Update Agents

To find out which servers are supported and which system components can be updated with the various update procedures please refer to the relevant files on the ServerView Suite DVD 1 under **ServerView Suite – Software Products - ServerView – Maintenance & Update - Update (Supported Systems and Info** columns).

The ServerView Update Agent needs around 3 minutes to start up completely.

4.1 Installation on the managed server

4.1.1 Requirements for installation

- Installation sequence:
Install ServerView agents before ServerView Update Agent.
- For an **online update** only a functioning LAN connection is required.
- For an **Update via TFTP Server** refer to section "[Installation on the TFTP server](#)" on page 51.

The following difference exist with regard to the components to be updated via the TFTP server:

In the case of autonomous hardware systems on which no Windows, Linux or DOS operating system runs (e.g. management blades) it is not necessary to install the update agent on the managed system.

-  Management blades and connection blades are always updated via a TFTP server.

4.1.2 Requirements for uninstallation

If you want to uninstall ServerView Update Agent, ensure that all jobs on the involved systems (management server, TFTP server, managed server) are finished or deleted.

Uninstallation sequence:

1. Uninstall ServerView Update Agent
2. Uninstall ServerView agents



Several errors can occur if user does not use correct order of uninstallation.

4.1.3 Installing Update Agent V6.0 (or later)

4.1.3.1 Installation under Windows

The following procedures are available for installation:

- Menu-Driven Installation (FTASetup.exe)
- Installation via the Command Line Interface
- Installation via ASP (Autonomous Support Package), SV Update Agent >=V5.50

Menu-driven Installation (FTASetup.exe)

Update agent version 4.91 and higher is only installed if the server is online-update-capable, i.e. online tools for updating the firmware are available. Older systems are not supported as of Update Management V6.0.

You start the installation via the *FTASetup.exe* file, which you will find on the ServerView Suite DVD 1 under *SVSSoftware\Software\ServerView\Windows\GlobalFlash\Agents\OnlineFlash*.

Start the menu-driven installation as follows:

1. Double-click the *FTASetup.exe* file.
2. Confirm the license conditions.
3. Define the parameters for the security settings.

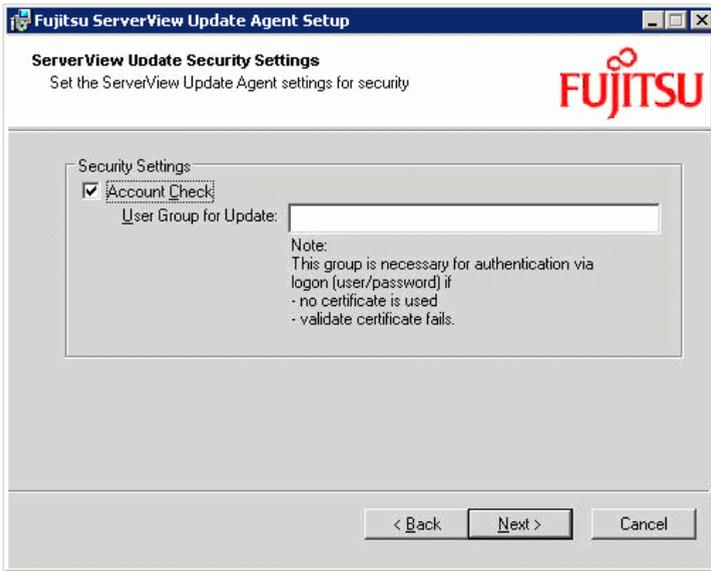


Figure 4: Security Settings

Security Settings

Account Check

Specifies whether access authorization should be checked when the server is accessed. If this option is enabled, you can use access authorization via certificates or via standard login.

User Group for Update

Name of the local user group

- This option is mandatory for access authorization via standard login.
- If you use certificates, it is not really necessary to enter a user group, but it is recommended for using the update agent, if no certificate is available or the validation of a certificate fails.

All users in this group are authorized to perform the update procedure. The user group *GFUSER* is preset. If you want to use the *GFUSER* group you must configure it under Windows.

But you can also use any other user group.

-  In the case of an update installation the default values are assigned to the existing configuration values.

Installation via the Command Line Interface (FTASetup.exe)

You can install the update agent at command level using the following command :

```
FTASetup -noaccountcheck {0|1}
        [-flashusergroup <user_group>]
FTASetup -GFAU
```

The options have the following meanings:

`-noaccountcheck { 0 |1}`

You use this option to enable **(0)** or disable **(1)** the password query.

`-flashusergroup <user_group>`

When the password query is enabled this option can be used to specify the name of a local user group. All users in this user group are authorized to perform the update procedure. If this option is omitted, *GFUSER* is the default.

`-GFAU`

You use this option to start an update installation for the agents. In contrast to a complete new installation (without this option) parameters already set in the update agent are retained.

-  In the case of an update installation the default values are assigned to the existing configuration values.

Installation via ASP (Autonomous Support Package), SV Update Agent >=V5.50

You start the installation via the installation package `SVUpdateAgent_Win_ASP_<vers>.exe`, which you will find on the ServerView Update DVD under:

Firmware - Agent-Win - SV-Update-Agent.

You can install the update agent at the command level using the following command:

```
start /wait SVUpdateAgent_Win_ASP_<vers>.exe
```

4.1.3.2 Installation under Linux or VMWare (ESX)

Update agent version 4.91 and higher is only installed if the server is online-update-capable, i.e. online tools for updating the firmware are available. Older systems are not supported as of Update Management V6.0.

Update Agent <= V5.00

You start the installation via the installation package **SMAWgfa-<Release>-<Version>.rpm**, which you will find on the ServerView Suite DVD 1 under **Firmware - Agent-Lx - SV-Update-Agent.**

You can install the update agent at command level using the following command:

```
rpm {-i | -U --nopreun --nopostun}  
    SMAWgfa-<Release>-<Version>.rpm
```

The options have the following meanings:

-i

You use this option to start the initial installation.

-U

You use this option to start an update installation.

`--nopreun --nopostun` (only for update installations)

If these options, which must always be specified together, are selected, the uninstallation routines do not run when an update installation takes place. Parameters already set in the update agent are retained.

Update Agent >= V5.01

You start the installation via the installation package **SVUpdateAgent_Lx_V<vers>.scexe**, which you will find on the ServerView Suite DVD 1 under **SVSSoftware - Software - ServerView - Linux - GlobalFlash - Agents - OnlineFlash**.

You can install the update agent at the command level using the following command:

```
sh SVUpdateAgent_Lx_V<vers>.scexe
```

Configuration of the Update Agent

When you have executed the command, the parameters are assigned default values in the `/opt/SMAW/SMAWgfa/cfg/LinuxFwuAgent.cfg` file and you can change these to suit your requirements.

`FlashUserGroup=<user-group>`

Name of the primary user group which is entered in `/etc/passwd` for the user. All users in this group are authorized to execute the update procedure (default *GFUSER*).

If it does not yet exist the *GFUSER* group with the user **globalflash** and the password **globalflash** is automatically set up during installation.

This parameter is evaluated only when `NoAccountCheck = 0`.

`NoAccountCheck=<n>`

`n = 0` (password query enabled; default value)

`n = 1` (password query disabled)

4 Installing ServerView Update Agents

`TraceFile=<file>`

File in which the agent's actions are logged when `TraceLevel > 0`.

The directory must exist if given in `<file>`.

Default file name: `/opt/SMAW/SMAWgfa/data/gf_agent.log`

`TraceLevel=<n>`

`n = 0` (no tracing)

`n = 2` (tracing of errors)

`n = 3` (tracing of the commands)

`n = 5` (detailed tracing)

Default `TraceLevel = 2`

Parameter changes only become effective after the `/etc/init.d/globalflash` restart command has been executed.



In the case of an update installation the default values are assigned to the existing configuration values.

Uninstallation under Linux

Uninstallation is performed using the `rpm -e SMAWgfa` command.

4.2 Installation on the TFTP server

The PXE or TFTP service should be stopped, if you use other PXE/TFTP services, because a parallel use of two services might cause problems.

For how to install ServerView Update Agent, see section "[Installing Update Agent V6.0 \(or later\)](#)" on page 45.

4.2.1 Installation under Windows

Installation sequence:

1. TFTP Server
2. ServerView Agents
3. ServerView Update Agent

To install TFTP server you have the following options:

- PRIMERGY ServerView Suite DVD 1
Use `<dvd-root>:\Setup\WebUI\FjPXEServer.msi` to install a TFTP service on a TFTP server system.
- Deployment Manager (Deployment Service)
- ServerView Installation Manager > Remote Installation

4.2.2 Installation under Linux

Installation sequence:

1. TFTP Server
2. ServerView Agents
3. ServerView Update Agent

To install TFTP server

- Install software package **tftp**
- TFTP must be enabled (file /etc/xinetd.d/tftp: param **disable=no**)
- Network service **xinetd** must be running
- If a firewall is activated: allow tftp

5 User Interface

The Update Management user interface comprises the interfaces of the individual applications. The Configuration wizard starts automatically the first time you open Update Management. This wizard allows you to make global settings for all applications.

- **Update Manager**
- **Repository Manager**
- **Download Manager**
- **Configuration**

5.1 Update Manager Main Window

The main window contains the following elements (from top to bottom):

- the ServerView Suite header
- the ServerView Suite menu bars
- the work area with the tree structure on the left and tabs on the right.

5 User Interface

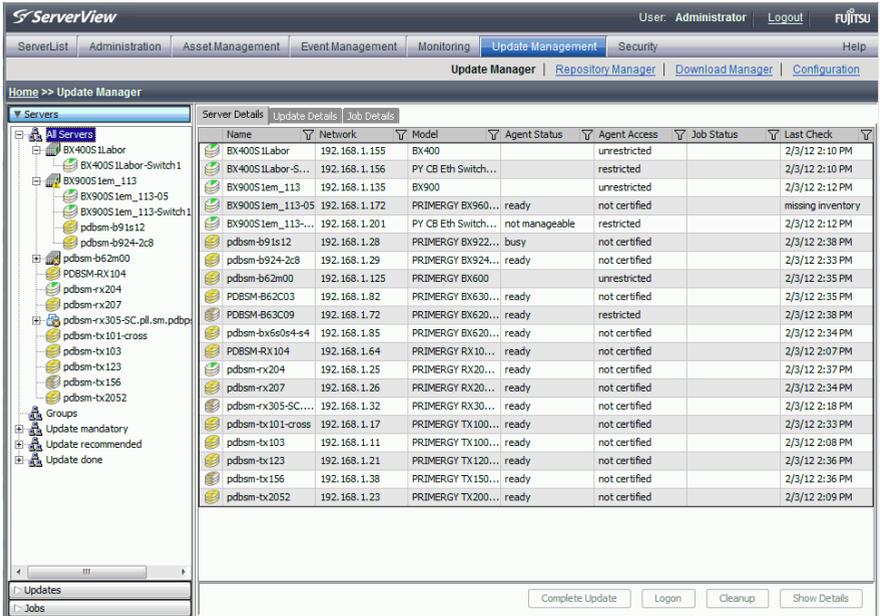


Figure 5: Update Manager Main Window

The appearance of the tabs is determined by the entry you select in the tree structure. The following combinations are possible:

Tree structure	Work area tabs			
	Server Details	Update Details		Job Details
Servers List of servers	Information about the selected servers	Component list in the form of a tree structure (depends on the selection in the server list)	Updates for the components selected in the component list	Information about the jobs that exist for the selected servers

Tree structure	Work area tabs			
	Server Details	Update Details		Job Details
Updates List of updates	Information about all servers for which the selected components are relevant	Server list in the form of a tree structure (depends on the selection in the update list)	Updates for all components that are relevant for the selected servers	Combination not permitted
Jobs List of jobs	Information about all servers for which the selected jobs are relevant	Combination not permitted		Information about the selected jobs

5.1.1 The tree structure

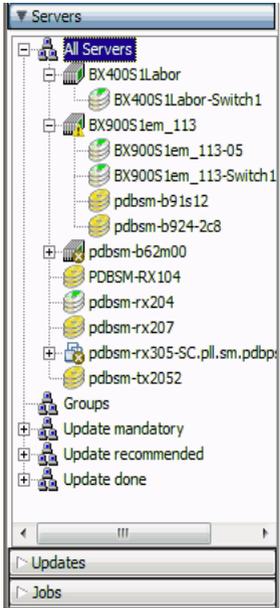


Figure 6: **Update Manager** tree structure

The tree structure is on the left of the work area in the Update Manager and provides various views, divided into different groups, of the servers in a domain. You can filter these views within the groupings down to object and component level.

Tree structure	Groupings
Servers	<p>Information about Servers within the domain</p> <p>All Servers All servers within the domain</p> <p>Groups Customized groups, which you created with the Server-List application</p> <p>In the groups All Servers and Groups the symbols are showing the cumulated update status.</p> <ul style="list-style-type: none"> An update is not required An update is recommended An update is urgently required

Tree structure	Groupings
<p>Servers (continued)</p>	<p>Update mandatory Servers on which an update is urgently required</p> <p>Update recommended Servers on which an update is recommended</p> <p>In the groups Update mandatory and Update recommended, instead of update status icons, server icons are displayed, because the name of the group is the same as the name of the update status of the servers in the group.</p> <p>For a description of the icons, see the online help of the ServerBrowser application.</p> <ol style="list-style-type: none"> 1. Start the ServerBrowser application. 2. Click Help - <u>ON ServerBrowser</u> The ServerBrowser online help is displayed. 3. In the section Browsing Pane, a description of the server icons is displayed. <p>Unsupported Servers All checked servers with existing inventory data which are not supported by the current Update Manager</p> <p>Unknown Servers All servers which could not be checked because no inventory data exist.</p> <p>Update done Servers on which no update is required.</p>

Tree structure	Groupings
Updates	<p data-bbox="356 247 925 276">Software and firmware components of the servers</p> <p data-bbox="356 316 561 344">All Components</p> <p data-bbox="389 349 880 378">All components, regardless of their version</p> <p data-bbox="356 413 477 442">Upgrades</p> <p data-bbox="389 446 919 475">Components for which an upgrade is available</p> <p data-bbox="356 510 512 539">Downgrades</p> <p data-bbox="389 544 938 572">Components for which a downgrade is available</p> <p data-bbox="356 608 572 636">Installed Updates</p> <p data-bbox="389 641 841 670">All components installed on the servers</p> <p data-bbox="356 705 564 734">User Collections</p> <p data-bbox="389 738 994 805">User-defined component groups, which you create in the RepositoryManager</p> <p data-bbox="378 831 596 860"> Update group</p>

Tree structure	Groupings
<p>Jobs</p>	<p>Jobs defined for the update of the servers</p> <p>Root All Jobs All jobs, regardless of status</p> <p>Waiting Jobs Jobs that are waiting for the time to transfer the updates from the management server to the PRIMERGY servers</p> <p>Jobs in Progress Jobs that are currently in the update phase</p> <p>Ready Jobs Jobs that were executed without errors (if a restart is required after an update phase, this status is not displayed until the server has been restarted)</p> <p>Failed Jobs Jobs that failed</p> <ul style="list-style-type: none">  Completed jobs  Failed jobs  Jobs in process  Waiting jobs

5.1.2 Server Details tab

The **Server Details** tab displays information about servers, depending on what you have already selected in the tree structure.

Tree structure	Server Details Tab
Servers	Information about the selected servers
Updates	Servers for which the selected components are relevant
Jobs	Servers for which the selected jobs are relevant

To open the tab, click the **Server Details** tab in the main window.

The screenshot shows the ServerView Update Manager interface. The 'Server Details' tab is active, displaying a table of server information. The table has columns for Name, Network, Model, Agent Status, Agent Access, Job Status, and Last Check. The table lists various servers with their respective details. A context menu is visible over the table entries.

Name	Network	Model	Agent Status	Agent Access	Job Status	Last Check
BX4005 llabor	192.168.1.155	BX400		unrestricted		2/3/12 2:10 PM
BX4005 llabor-Switch1	192.168.1.156	PY CB Eth Switch...		restricted		2/3/12 2:12 PM
BX9005 Iem_113	192.168.1.135	BX900		unrestricted		2/3/12 2:12 PM
BX9005 Iem_113-05	192.168.1.172	PRIMERGY BX960...	ready	not certified	missing inventory	
BX9005 Iem_113-05-Switch1	192.168.1.201	PY CB Eth Switch...	not manageable	restricted		2/3/12 2:12 PM
pdbsm-b91s12	192.168.1.28	PRIMERGY BX924...	busy	not certified		2/3/12 2:38 PM
pdbsm-b924-2c8	192.168.1.29	PRIMERGY BX924...	ready	not certified		2/3/12 2:33 PM
pdbsm-b62m00	192.168.1.125	PRIMERGY BX600		unrestricted		2/3/12 2:35 PM
pdbsm-rx204	192.168.1.82	PRIMERGY BX630...	ready	not certified		2/3/12 2:35 PM
pdbsm-rx207	192.168.1.72	PRIMERGY BX620...	ready	restricted		2/3/12 2:38 PM
pdbsm-rx305-SC_pll.sm.pdbp	192.168.1.85	PRIMERGY BX620...	ready	not certified		2/3/12 2:34 PM
pdbsm-tx101-cross	192.168.1.64	PRIMERGY RX10...	ready	not certified		2/3/12 2:07 PM
pdbsm-tx103	192.168.1.25	PRIMERGY RX20...	ready	not certified		2/3/12 2:37 PM
pdbsm-tx123	192.168.1.26	PRIMERGY RX20...	ready	not certified		2/3/12 2:34 PM
pdbsm-tx156	192.168.1.32	PRIMERGY RX30...	ready	not certified		2/3/12 2:18 PM
pdbsm-tx2052	192.168.1.17	PRIMERGY TX100...	ready	not certified		2/3/12 2:33 PM
Update mandatory	192.168.1.11	PRIMERGY TX100...	ready	not certified		2/3/12 2:08 PM
Update recommended	192.168.1.21	PRIMERGY TX120...	ready	not certified		2/3/12 2:36 PM
Update done	192.168.1.38	PRIMERGY TX150...	ready	not certified		2/3/12 2:36 PM
	192.168.1.23	PRIMERGY TX200...	ready	not certified		2/3/12 2:09 PM

Figure 7: **Server Details** tab



In the table, a context menu is available. To open the context menu, right-click an entry in the table.

The columns in the table have the following meanings:

Column	Meaning
Icon	<p>General update status of the server</p> <p> An update is not required.</p> <p> An update is recommended.</p> <p> An update is urgently required.</p> <p>To evaluate the General update status of server, the contents of the following groups are checked:</p> <ul style="list-style-type: none"> • Unapplicable Updates • Upgrades • All Components
	Opens the Filtering for <column> dialog box, where you specify which rows are to be displayed in the table.
Name	Name of the server
Network	IP address of the server
Model	Model name of the server

Column	Meaning
Agent Status	<p data-bbox="395 248 852 276">Status of the update agent on the server</p> <p data-bbox="395 308 986 368">ready The server is ready for the update phase.</p> <p data-bbox="395 389 1003 600">error An error occurred during the update phase. You must save the diagnostics about the failed job, then initialize the update agent with the Cleanup function.</p> <p data-bbox="395 624 997 684">absent No update agent is installed on the server or the agent is not running.</p> <p data-bbox="395 705 1012 766">busy The server is currently in the update phase.</p> <p data-bbox="395 786 1012 847">unknown The agent status could not be determined.</p> <p data-bbox="395 868 992 963">not_managable The ServerView agent cannot currently be reached on the computer via SNMP.</p>

Column	Meaning
Agent Access	<p data-bbox="395 248 944 277">Access status of the update agent on the server</p> <p data-bbox="395 308 1000 400">granted Logon to the server has already been successfully completed. You have access to the server.</p> <p data-bbox="395 424 1003 552">restricted Access to the server is currently restricted. Log on must be performed with the appropriate user ID and password on the server.</p> <p data-bbox="395 576 1000 635">unrestricted Logon is not required to access the server.</p> <p data-bbox="395 659 1009 786">trusted Since the server was unavailable at the time the logon was attempted, the logon data was saved under the assumption that it was correct.</p> <p data-bbox="395 810 1020 919">certified A valid certificate is installed. The managed server is ready for single sign-on.</p> <p data-bbox="395 943 1014 1051">not certified No valid certificate is installed. The managed server is not ready for single sign-on.</p>

Column	Meaning
Job Status	<p>Status of the relevant jobs specified for the server</p> <p>done All components have been updated and the job is now completed.</p> <p>waiting The job is waiting to be executed (this is the status before the data transfer begins).</p> <p>processing The job is currently being executed.</p> <p>error Possible reasons:</p> <ul style="list-style-type: none"> • The update of at least one component failed. • Check-Job was not successful • Cleanup-Job was not successful • Status could not be retrieved
Last Check	<p>Last comparison of the server inventory with the repository</p> <p><Date> Date of the last successful check</p> <p>Failed The last check failed. To display more information, click Show Details and then Show Log-File in the dialog box that appears.</p> <p>N/A A check has not been performed for this server yet.</p>

Buttons

Complete Update

Automatically establishes a list of all components that can be updated on the previously selected server. The **Create Job wizard** then opens, via which you start the update of the identified components.

This button is only enabled if you are logged on as administrator.

Logon

Opens the **Logon** dialog box, where you can log on to selected servers. This button is only activated if you have selected one or more servers in the table.

Cleanup

You can use the cleanup function to reset the update agent on a server to a defined status. This function may be required, for example, if the update agent was accessed by another management server (invalid configuration!), or if a job failed unexpectedly (**Job Status = error, Return-text = Pending Job**).

Show Details

Opens the **Server Details** dialog box, which displays information about the selected server.

This button is only activated if you have selected a server.

Additional functions in the context menu

Force Check

A job with the name **Check_xx** is created (xx = sequence number). It performs another comparison (check) of the server inventory with the repository. This job is displayed on the **Job Details** tab. The dialog box will be closed automatically.

Show Logfile

Displays the log file for the currently selected server.

Show History

Opens a web page showing the flash log for the selected server.

Show Updates

Opens the **Update Details** tab to display update information about the selected server.

5.1.3 Update Details tab

The **Update Details** tab contains information about updates. It comprises the following elements:

- The update details list (tree structure)
- A table that contains the updates that match your selection in the server list and update details list.

To open the tab, click the **Update Details** tab in the main window.

The screenshot shows the ServerView Update Manager interface. The 'Update Manager' tab is active, and the 'Update Details' sub-tab is selected. The main window displays a table of updates with the following columns: Server Name, Category, Component, Installed Version, New Version, Reboot, and Job Name. The table contains several rows of update information, including updates for SystemBoard, Management, Agent-Lx, Tools, and various support components. A context menu is visible over the table, indicating that a right-click action has been performed on an entry.

Server Name	Category	Component	Installed Version	New Version	Reboot	Job Name
pdbsm-bx920...	SystemBoard	D3142-BX92053	V4.6.5.1 R1.4.0...	V4.6.5.1 R1.9.0	no	
pdbsm-bx920...	Management...	IRMC 53-BX92...	5.25G803.14	6.24G803.12	no	
pdbsm-bx920...	Management...	IRMC 52-BX92...	5.59G803.27	5.55G803.25	yes	
pdbsm-bx920...	SystemBoard	D3030-BX92052	080015 Rev.3D9...	080015 Rev.3D60...	yes	
pdbsm-bx920...	Agent-Lx	Management ...	6.00.12	6.00.12	no	
pdbsm-bx920...	Tools	Certificates	no certificate pre...	Install	no	
PDBSM-B62C05	SystemBoard	D2571-BX62054	080012 Rev.380...	080012 Rev.3807...	yes	
PDBSM-B62C05	Agent-Win	Management ...	4.80.07	6.00.04	no	
PDBSM-B62C05	Agent-Win	Management ...	4.80.07	5.50.07	no	
PDBSM-B62C05	Agent-Win	SV-Update-A...	5.50.02	6.00.06	no	
PDBSM-B62C05	Agent-Win	SV-Update-A...	5.50.02	5.50.02	no	
PDBSM-B62C05	Tools	PrimeUp	0.0.0	1.16.10	no	
PDBSM-B62C05	Tools	PrimeUp	0.0.0	1.16.08	no	
PDBSM-B62C05	PrimSupportP...	ATI_Radeon	2.0.0.0	3.00.00.00	yes	
PDBSM-B62C05	PrimSupportP...	BroadCom_LA...	2.1.0.0	3.02.00.00	yes	
PDBSM-B62C05	PrimSupportP...	F5C_SCAN	0.0.0.0	5.03.00.00	no	
PDBSM-B62C05	PrimSupportP...	F5C_SCAN	0.0.0.0	4.64.00.00	no	
PDBSM-B62C05	PrimSupportP...	Intel_ChipSets	2.1.0.0	3.03.00.00	yes	
PDBSM-B62C05	PrimSupportP...	Intel_ChipSets	2.1.0.0	3.01.00.00	yes	
PDBSM-B62C05	PrimSupportP...	LST_SAS_TME	2.0.0.0	3.02.00.00	yes	
PDBSM-B62C05	PrimSupportP...	ServerView_R...	2.2.0.0	3.16.00.00	yes	
PDBSM-B62C05	PrimSupportP...	ServerView_R...	2.2.0.0	3.14.00.00	yes	
PDBSM-B62C05	LanController	Broadcom Net...	1200	1202	yes	
PDBSM-B63C09	Management...	IRMC 52-BX62...	5.52G803.34	5.52G803.34	yes	

Figure 8: Update Details tab



In the table, a context menu is available. To open the context menu, right-click an entry in the table.

The content of the update details list depends on the entry that you have already selected in the tree structure.

Tree structure	Update details list (Update Details Tab)
<p>Servers</p>	<p>Displays the components belonging to the selected servers.</p> <p>In the update details list, you can filter the components displayed in the table according to the following groups:</p> <ul style="list-style-type: none"> • All Components: Displays all components belonging to the servers selected in the server list • Upgrades: Displays the upgrades associated with the servers selected in the server list • Downgrades: shows all downgrades of the selected servers in the server list. • Installed Updates: Displays the updates installed on the servers selected in the server list. • Unapplicable Updates: Displays the updates that cannot be installed. An explanation of why the updates cannot be installed is displayed in the Update Details dialog box. To open this dialog box, click Show Details. • Released Updates: Displays the updates associated with the servers selected in the server list which have been released in the Repository Manager. • Inventory Information: Displays all installed firmware and drivers on the servers selected in the server list, even if they are not included in the repository. • User Collections: Displays the user-specific update groups for the servers selected in the server list

Tree structure	Update details list (Update Details Tab)
Servers (continuation)	 In general, only the installed update versions contained in the underlying repository are displayed in the table. In the case of each upgrade, only the latest version is displayed in the table and, in the case of each downgrade, only the next older version found in the repository is displayed in the table. Nevertheless, the version of the update can be selected when executing the Create Job Wizard later.
Updates	Displays the servers that contain the selected components
Jobs	Combination not permitted

 In the table, a context menu is available. To open the context menu, right-click an entry in the table.

The columns in the table have the following meanings:

Column	Meaning
Icon	Importance of the update  An update is recommended.  An update is urgently required.  An update is not required.
	Opens the Filtering for <column> dialog box, where you specify which rows are to be displayed in the table.

Column	Meaning
Server Name	Name of the server
Category	Group to which the component belongs
Component	Name of the component
Installed Version	Version of the installed update
New Version	Update version that is to replace the installed version
Reboot	Indicates whether the server is restarted after the components are updated. (Yes/No) auto (for components of the blade systems group only) The component itself decides whether a reboot is necessary or not.
Job Name	If the update is already assigned to a job, the name of this job is displayed here.

Buttons

Create Job

Opens the **Create Job Wizard**, which allows you to create a job for the selected updates.

Show Details

Opens the **Update Details dialog box**, which provides a detailed information about the selected update.

5.1.4 Job Details tab

The **Job Details** tab displays information about jobs, depending on what you have already selected in the tree structure.

Tree structure	Job Details Tab
Servers	Job information for the selected servers
Updates	Combination not permitted
Jobs	Information about selected jobs

To open the tab, click the **Job Details** tab in the main window.

The screenshot shows the ServerView Update Manager interface. The 'Update Manager' window is open, and the 'Job Details' tab is selected. The left sidebar shows a tree structure with 'Jobs' selected. The main area displays a table of jobs:

Name	Server Name	Status	Start Time	Severity	Released	Description
CLEANUP_1	PDBSM-TX101	done	6/28/10 1:26 PM		no	
CLEANUP_2	PDBSM-TX204	error	6/28/10 2:40 PM		no	
CLEANUP_3	pdbsm-tx203	waiting	6/28/10 2:42 PM		no	
JOB_1	B91S07	waiting	4/22/10 12:00 PM	recommended	yes	Installation of certificates
JOB_11	PDBSM-RX202	error	6/29/10 12:16 PM	recommended	no	
JOB_13	PDBSM-TX303	error	6/28/10 1:36 PM	recommended	no	
JOB_2	PDBSM-TX303	error	6/29/10 1:12 PM	recommended	no	
JOB_3	PDBSM-RX202	error	6/28/10 1:23 PM	recommended	no	
JOB_5	PDBSM-RX304	error	6/28/10 1:25 PM	recommended	no	
JOB_6	PDBSM-TX101	error	6/28/10 1:26 PM	recommended	no	
JOB_7	PDBSM-TX101	error	6/28/10 1:29 PM	recommended	no	
JOB_8	pdbsm-tx203	error	6/28/10 1:32 PM	recommended	no	
JOB_9	PDBSM-TX204	error	6/28/10 1:34 PM	recommended	no	

At the bottom of the window, there are buttons for 'Copy Job', 'Show Details', 'Edit Job', 'Delete', and 'Release'.

Figure 9: Job Details tab

 In the table, a context menu is available. To open the context menu, right-click an entry in the table.

The columns in the table have the following meanings:

Column	Meaning
Icon	Status of the current jobs  All components have been updated and the job is now completed.  The job is waiting to be executed (this is the status before the data transfer begins).  The job is currently being executed.  Possible reasons: <ul style="list-style-type: none"> • The update of at least one component failed. • Check-Job was not successful • Cleanup-Job was not successful • Status could not be retrieved
	Opens the Filtering for <column> dialog box, where you specify which rows are to be displayed in the table.
Name	Name of the job
Server Name	Name of the server

Column	Meaning
Status	<p data-bbox="344 247 549 276">Current job status</p> <p data-bbox="344 304 983 403">waiting The job is waiting to be executed (this is the status before the data transfer begins).</p> <p data-bbox="344 422 975 451">transferring The job is currently being transferred.</p> <p data-bbox="344 470 1003 569">transferred The job has been successfully transferred and is now waiting for the start of the update procedure.</p> <p data-bbox="344 588 922 649">flashing The job is currently in the update phase.</p> <p data-bbox="344 668 972 729">flashed The update has been performed successfully on the server.</p> <p data-bbox="344 748 953 809">rescanning The inventory of the server is being redetermined.</p> <p data-bbox="344 828 927 857">rebooting The server is currently rebooting.</p> <p data-bbox="344 876 1003 936">done All components have been updated and the job is now completed.</p> <p data-bbox="344 956 990 1220">error Possible reasons:</p> <ul data-bbox="580 1013 990 1220" style="list-style-type: none"> • The update of at least one component failed. • Check-Job was not successful • Cleanup-Job was not successful • Status could not be retrieved
Start Time	Time when the flash of the updates is started

Column	Meaning
Severity	Cumulated status of the updates contained in the job (the most critical status is shown in each case) recommended An update is recommended. mandatory An update is urgently required. normal An update is not required.
Released	Shows whether the job is released (yes) or not (no).
Description	Description of the job (comment).

Buttons

Copy Job

Opens the **Copy Job Wizard**, which allows you to copy the selected job to other servers.

Show Details

Opens the **Job Details** dialog box, which displays detailed information about the selected job.

Edit Job

Opens the **Edit Job** dialog box, which allows you to change some properties of the selected job.

Delete

Deletes the selected job. A confirmation prompt appears before deletion is initiated.

Release

Releases the selected jobs for execution on other PRIMERGY servers (for example, after they have been processed without errors on a test host). Jobs are indicated as **released** for information purposes only.

5.1.5 Dialog boxes and wizards

Update Manager provides the following dialog boxes and wizards.

In the **Server Details** tab:

- **LogOn** dialog box
- **Cleanup** wizard
- **Show Server Details** dialog box

In the **Update Details** tab:

- **Create Job** wizard
 - **Change TFTP Address** dialog box
 - **Change Flash Address** dialog box
- **Show Update Details** dialog box
 - **Show Release Notes** dialog box
 - **Show PSP Details** dialog box

In the **Job Details** tab:

- **Copy Job** wizard
 - **Change TFTP Address** dialog box
 - **Change Flash Address** dialog box
- **Show Job Details** dialog box

5.1.5.1 LogOn dialog box

The **LogOn** dialog box allows you to log on to all servers that require user authentication (**AgentAccess = restricted or not certified**).

To open the dialog box, choose any servers on the **Server Details** tab and click **Logon**.

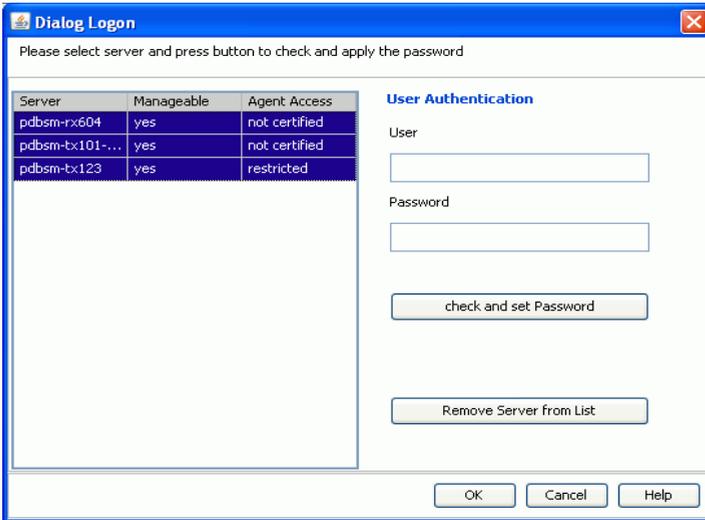


Figure 10: **LogOn** dialog box

The table in the dialog box displays all servers you selected on the **Server Details** tab. All servers with **restricted** or **not certified** access status are selected automatically.



If you have selected servers with an access status other than **restricted** or **not certified**, Update Manager ignores attempts to log on to these servers.

Column	Meaning
Server	Name of the server
Manageable	Availability of the server

Column	Meaning
Agent Access	<p data-bbox="365 248 913 276">Access status of the update agent on the server</p> <p data-bbox="365 308 969 400">granted Logon to the server has already been successfully completed. You have access to the server.</p> <p data-bbox="365 424 969 552">restricted Access to the server is currently restricted. Log on must be performed with the appropriate user ID and password on the server.</p> <p data-bbox="365 576 969 632">unrestricted Logon is not required to access the server.</p> <p data-bbox="365 655 981 783">trusted Since the server was unavailable at the time the logon was attempted, the logon data was saved under the assumption that it was correct.</p> <p data-bbox="365 807 992 919">certified A valid certificate is installed. The managed server is ready for single sign-on.</p> <p data-bbox="365 943 981 1046">not certified No valid certificate is installed. The managed server is not ready for single sign-on.</p>

User Authentication

Login user ID and password for access control.

This parameters are only required if the ServerView update agent on the managed node is configured with AccountCheck.

If the server is to be updated via a TFTP server, enter user ID and password for access to the controller (MMB, switch blade, iRMC)

check and set Password

Checks the logon data and sets the access rights on the selected servers (if **Manageable = yes**). The password is valid for the current session.

If the server is unavailable, the logon data is stored under the assumption that it is correct (if **Manageable = no**).

Remove Server from List

Removes the selected server from the displayed list.

5.1.5.2 Cleanup Wizard

You can use this wizard to clean up the update agent of a server if the agent status is **error**.

Resetting the update agent may be necessary if a job stops with **Job Status = error** and the return text contains the message **Pending Jobs**. You can view the return text for a job by selecting the job on the **Job Details** tab and opening the **Show Job Details** dialog. **Pending Jobs** is returned if the update agent is already processing jobs from another management station or jobs started via CLI.

The **Cleanup Wizard** comprises several dialog boxes to guide you through the individual steps. All required steps are displayed in the tree structure on the left.

To open the **Cleanup Wizard**, select the server on the **Server Details** tab and click **Cleanup**.

LogOn step (Cleanup Wizard)

LogOn is the first step in the wizard. Here you log on to all servers that require user authentication (**AgentAccess = restricted** or **not certified**).

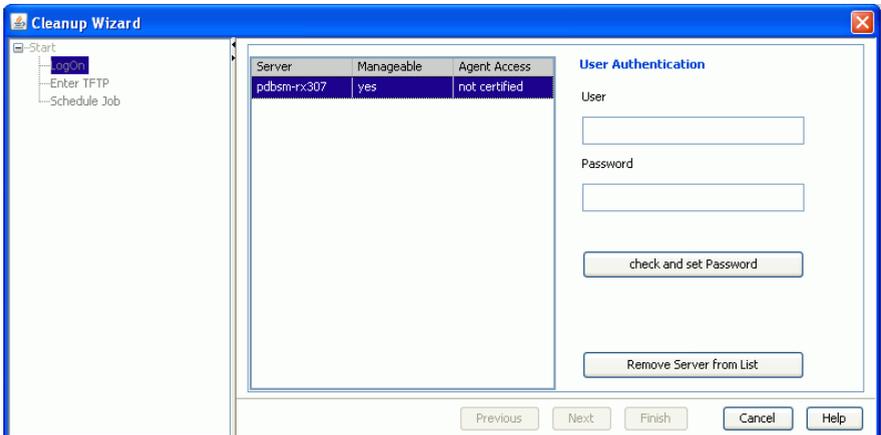


Figure 11: LogOn step

The table displays all servers you selected on the **Server Details** tab. All servers with **restricted** or **not certified** access status are selected automatically.



If you have selected servers with an access status other than **restricted** or **not certified**, Update Manager ignores attempts to log on to these servers.

Column	Meaning
Server	Name of the server
Manageable	Availability of the server
Agent Access	<p>Access status of the update agent on the server</p> <p>granted Logon to the server has already been successfully completed. You have access to the server.</p> <p>restricted Access to the server is currently restricted. Log on must be performed with the appropriate user ID and password on the server.</p> <p>unrestricted Logon is not required to access the server.</p> <p>trusted Since the server was unavailable at the time the logon was attempted, the logon data was saved under the assumption that it was correct.</p> <p>certified A valid certificate is installed. The managed server is ready for single sign-on.</p> <p>not certified No valid certificate is installed. The managed server is not ready for single sign-on.</p>

User Authentication

Login user ID and password for access control.

This parameters are only required if the ServerView update agent on the managed node is configured with AccountCheck.

If the server is to be updated via a TFTP server, enter user ID and password for access to the controller (MMB, switch blade, iRMC)

check and set Password

Checks the logon data and sets the access rights on the selected servers (if **Manageable = yes**). The password is valid for the current session.

If the server is unavailable, the logon data is stored under the assumption that it is correct (if **Manageable = no**).

Remove Server from List

Removes the selected server from the displayed list.

Enter TFTP step (Cleanup Wizard)

Enter TFTP is the second step in the wizard. This step is only displayed if the cleanup runs via TFTP server (for example, in the case of a management blade or a connection blade).

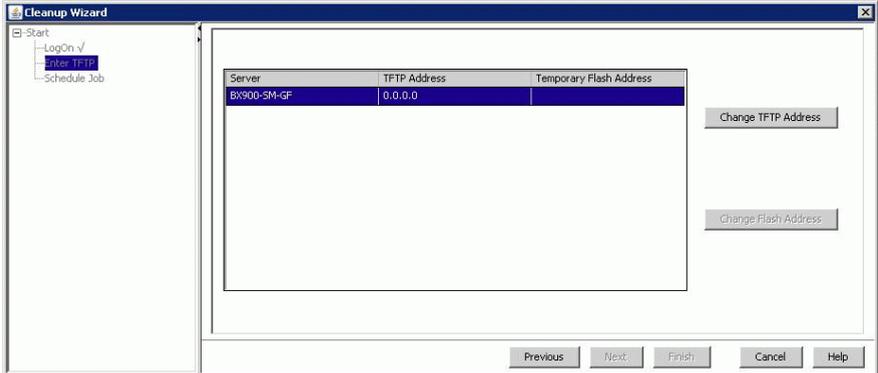


Figure 12: **Enter TFTP** step

The table shows a subset of the servers selected on the tab. For the servers displayed here, cleanup will be done via the **TFTP** server.

Column	Meaning
Server	Name of the server
TFTP Address	IP address of the TFTP server
Temporary Flash Address	In the Cleanup Wizard this field remains empty.

Change TFTP Address

Click this button to change the IP address of the TFTP server for the selected server.

Change Flash Address

Click this button to change the temporary IP address used for flashing the management blade (MMBS2 only).

Schedule Job step (Cleanup Wizard)

Schedule Job is the last step in the wizard. Here you specify the time at which the cleanup is to be executed.

Figure 13: **Schedule Job** step

-  Make sure that the server on which the cleanup is to be performed is up and running at the time of execution.

Job Name

Unique name of the job

Default: CLEANUP_<sequence number, starts at 1>

Description

Description of the job as a comment (optional).

Exec Time

Start time for executing the job

Immediate Starts the job as soon as you click **Finish** to exit the wizard.

Later Starts the job at the specified time.
Select date, hours, and minutes.

5.1.5.3 Server Details dialog box

The **Server Details** dialog box provides detailed information relating to the server you selected on the **Server Details** tab.

 If you selected a server of the group **Unsupported Servers** or **Unknown Servers**, no server data will be displayed in this dialog.

To open this dialog box, click **Show Details** on the **Server Details** tab.

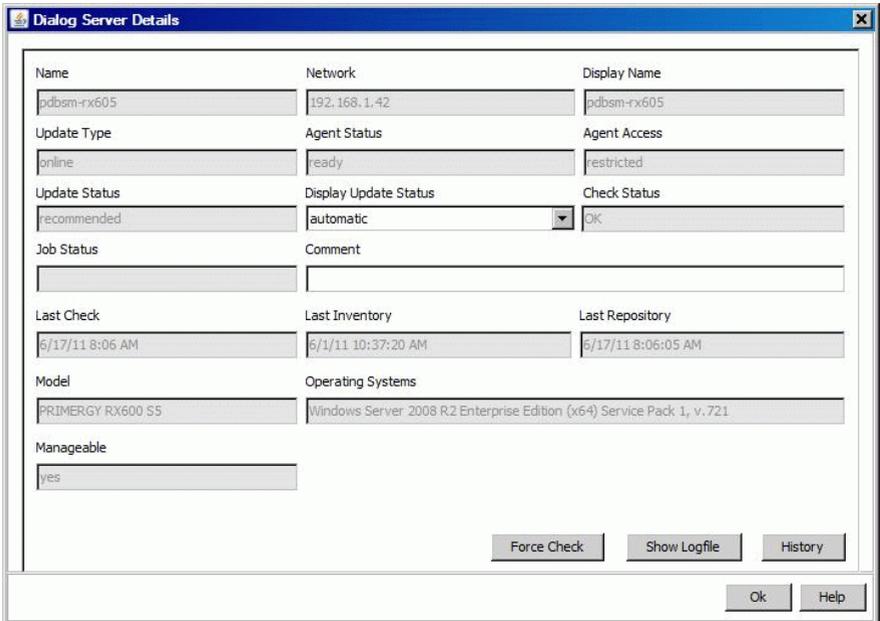


Figure 14: Server Details dialog box

Name

System name of the server

Network

IP address of the server

Display Name

Name of the server

For a standalone server:

<server name>

For a blade server:

<blade server name>-<slotID>

For a host system of a virtual system:

<server name of the virtual system>-host

For a guest system of a virtual system:

<server name of the virtual system>-<servername>

Update Type

Method used to perform the update

- | | |
|------------------|---|
| online | Update is performed while the operating system is running. |
| unknown | The update type could not be determined because <ul style="list-style-type: none">• The server cannot be reached.• No update agent is installed on the server. |
| illegal | <ul style="list-style-type: none">• An update agent \geq V4.80 was manually installed on an unsupported server type (e.g. offline server).• The model name of the server could not be determined. In this case, there is no entry in the Model column. |
| old agent | A GlobalFlash agent \leq V4.6x is installed.
For the server to be supplied with further updates, the GlobalFlash agent must be updated first. |

Agent Status

Status of the update agent on the server

ready	The server is ready for the update phase.
error	An error occurred during the update phase. You must save the diagnostics about the failed job, then initialize the update agent with the Cleanup function.
absent	No update agent is installed on the server or the agent is not running.
busy	The server is currently in the update phase.
unknown	The agent status could not be determined.
not_managable	The ServerView agent cannot currently be reached on the computer via SNMP.

Agent Access

Access status of the update agent on the server

granted	Logon to the server has already been successfully completed. You have access to the server.
restricted	Access to the server is currently restricted. Log on must be performed with the appropriate user ID and password on the server.
unrestricted	Logon is not required to access the server.
trusted	Since the server was unavailable at the time the logon was attempted, the logon data was saved under the assumption that it was correct.
certified	A valid certificate is installed. The managed server is ready for single sign-on.
not certified	No valid certificate is installed. The managed server is not ready for single sign-on.

Update Status

Cumulated update status of the server (the most critical status is displayed in each case)

- normal** An update is not required.
- recommended** An update is recommended.
- mandatory** An update is urgently required.

Display Update Status

Here you can forcibly change the value of **Update Status**, if necessary. For example, you can change the **Update Status** to **normal** (meaning an update is not required) if updates are recommended but you explicitly want the update job to skip this server.

- normal** **Update Status** forcibly becomes **normal**.
- recommended** **Update Status** forcibly becomes **recommended**.
- mandatory** **Update Status** forcibly becomes **mandatory**.
- automatic** The value of **Update Status** is used as is. (default)

Check Status

Status of the last check

- OK** The last check was performed successfully.
- Failed** The last check failed.
To display more information, click **Show Logfile**.

Job Status

Status of the relevant jobs specified for the server

done	All components have been updated and the job is now completed.
waiting	The job is waiting to be executed (this is the status before the data transfer begins).
processing	The job is currently being executed.
error	Possible reasons: <ul style="list-style-type: none">• The update of at least one component failed.• Check-Job was not successful• Cleanup-Job was not successful• Status could not be retrieved

Comment

Description field

Last Check

Last comparison result of the server inventory with the repository

Date	Date of the last successful check.
Failed	The last check failed. To display more information, click Show LogFile .
N/A	A check has not yet been performed for this server.

Last Inventory

Time at which the inventory was created on the server

Last Repository

Time at which the repository was last imported

Model

Model name of the server

Operating Systems

Information about the operating system

Manageable

Availability of the server

yes The ServerView agent can be reached via SNMP.

no The ServerView agent cannot be reached.

Buttons

Force Check

A job with the name **Check_xx** is created (xx = sequence number). It performs another comparison (check) of the server inventory with the repository. This job is displayed on the **Job Details** tab. The dialog box will be closed automatically.

Show Logfile

Displays the log file for the currently selected server.

Show History

Opens a web page showing the flash log for the selected server.

5.1.5.4 Create Job Wizard

This wizard allows you to create new update jobs. The wizard comprises several dialog boxes to guide you through the individual steps. All required steps are displayed in the tree structure on the left.

To open the wizard, choose any servers and updates on the **Update Details** tab and click **Create Job**.

LogOn step (Create Job Wizard)

LogOn is the first step in the wizard. Here you log on to all servers that require user authentication (**AgentAccess** = **restricted** or **not certified**).

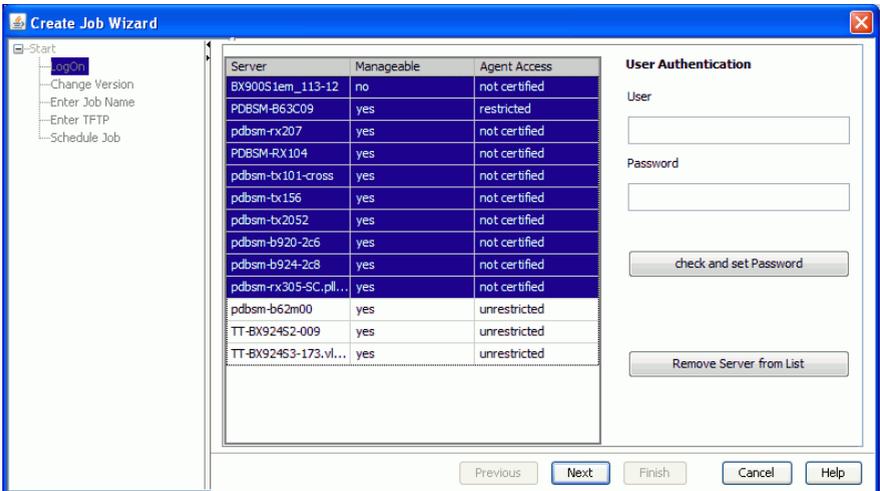


Figure 15: **LogOn** step

The table displays all servers for which the updates you selected on the **Update Details** tab are relevant. All servers with **restricted** or **not certified** access status are selected automatically.



If you have selected servers with an access status other than **restricted** or **not certified**, Update Manager ignores attempts to log on to these servers.

Column	Meaning
Server	Name of the server
Manageable	Availability of the server
Agent Access	<p>Access status of the update agent on the server</p> <p>granted Logon to the server has already been successfully completed. You have access to the server.</p> <p>restricted Access to the server is currently restricted. Log on must be performed with the appropriate user ID and password on the server.</p> <p>unrestricted Logon is not required to access the server.</p> <p>trusted Since the server was unavailable at the time the logon was attempted, the logon data was saved under the assumption that it was correct.</p> <p>certified A valid certificate is installed. The managed server is ready for single sign-on.</p> <p>not certified No valid certificate is installed. The managed server is not ready for single sign-on.</p>

User Authentication

Login user ID and password for access control.

This parameters are only required if the ServerView update agent on the managed node is configured with AccountCheck.

If the server is to be updated via a TFTP server, enter user ID and password for access to the controller (MMB, switch blade, iRMC)

check and set Password

Checks the logon data and sets the access rights on the selected servers (if **Manageable = yes**). The password is valid for the current session.

If the server is unavailable, the logon data is stored under the assumption that it is correct (if **Manageable = no**).

Remove Server from List

Removes the selected server from the displayed list.

Change Version step (Create Job Wizard)

Change Version is the second step in the wizard. The table displays all updates you selected on the **Update Details** tab.

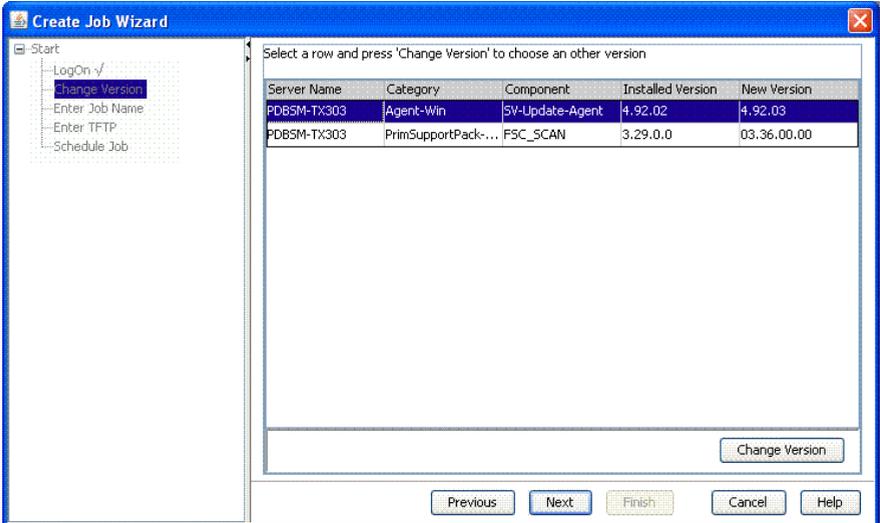


Figure 16: **Change Version** step

Column	Meaning
Server Name	Name of the server
Category	The group to which the component belongs
Component	Name of the component
Installed Version	The version that is currently installed
New Version	The version that is to replace the installed version

Change Version

Opens the **Update Details** dialog box, where you can select another version as the new version.

Enter Job Name step (Create Job Wizard)

Enter Job Name is the third step in the wizard. Here you assign a name to the job.

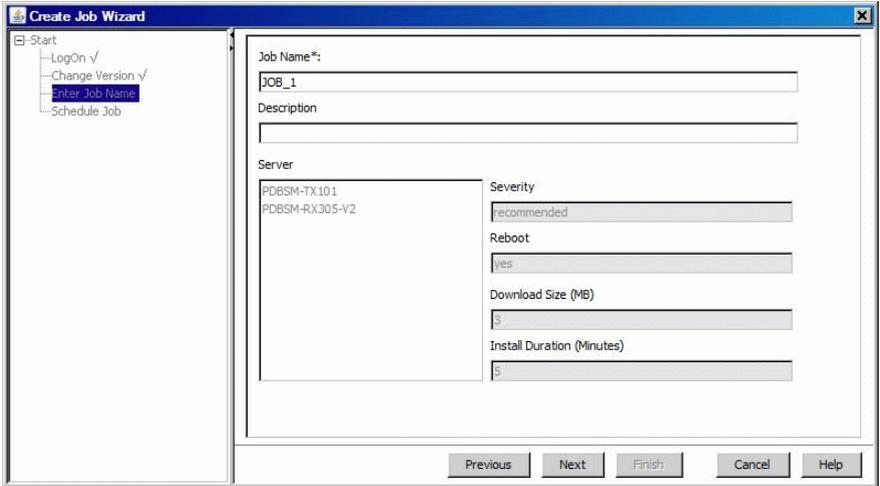


Figure 17: **Enter Job Name** step

Job Name

Unique name of the job

Default: JOB_ <sequence number, starts at 1>

Description

Description of the job as a comment (optional)

The following fields are provided for information purposes only. You cannot change the values.



If you create a job for multiple servers simultaneously, it may be that the values of the parameters that should be displayed in the same field are different. In this case, the string "----" will be displayed in this field.

Example:

For one server entered in the job a reboot is necessary after the update (**Reboot=yes**), while for others no reboot is necessary (**Reboot=no**). In this case the Reboot field will show the string "---".

If the parameters that should be displayed in the same field have the same value, this value will be displayed.

Server

Names of the server for which the updates are relevant

Severity

Importance of the updates

recommended An update is recommended

mandatory An update is urgently required

normal An update is not required

If you create a job for a single server, the highest severity weighting of an update contained in the job is displayed (mandatory > recommended > normal).

Reboot

Indicates, whether a reboot is required (**Reboot=yes**) after the job is executed or not (**Reboot=no**).

auto (for components of the blade systems group only)

The component itself decides whether a reboot is necessary or not.

If you create a job for a single server, a reboot is required if at least one update needs a reboot.

Download Size (MB)

Free memory required on the relevant server for installing the updates

Install Duration (Minutes)

Time needed for installing all updates on the relevant server

Enter TFTP step (Create Job Wizard)

Enter TFTP is the fourth step in the wizard. This step is only displayed if the update runs via TFTP server (for example, in the case of a management blade or a connection blade).

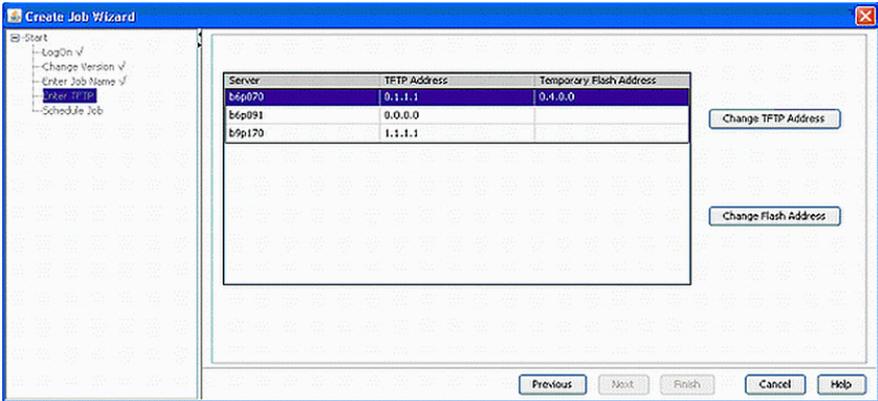


Figure 18: **Enter TFTP** step

The table shows a subset of the servers selected on the tab. For the servers displayed here, update will be done via the TFTP server.

Column	Meaning
Server	Name of the server
TFTP Address	IP address of the TFTP server
Temporary Flash Address	Temporary IP address used for flashing the management blade (MMBS2 only)

Change TFTP Address

Click this button to change the IP address of the TFTP server for the selected server.

Change Flash Address

Click this button to change the temporary IP address used for flashing the management blade (MMBS2 only).

Schedule Job step (Create Job Wizard)

Schedule Job is the last step in the wizard. Here you specify the time at which the job is to be executed.

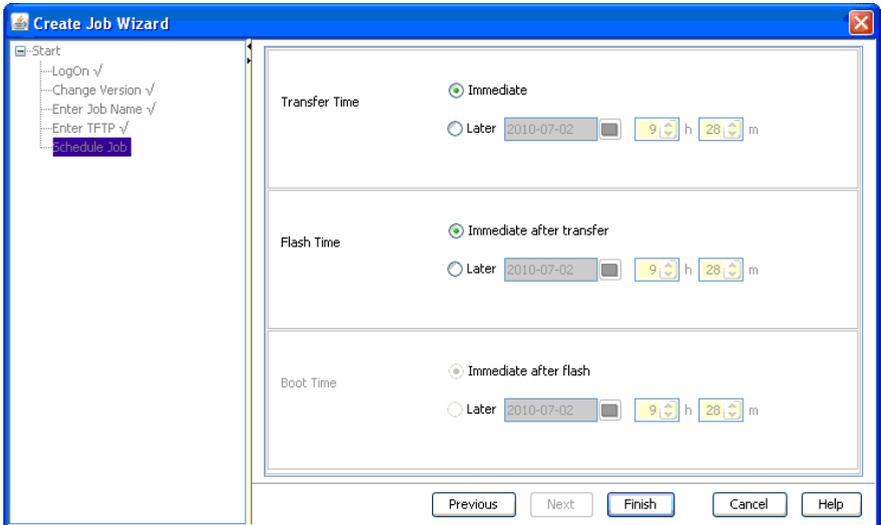


Figure 19: **Schedule Job** step



Make sure that the management station and the server on which the job is to run are up and running at the time of execution.

Transfer Time

Start time for transferring the job to the server.

Immediate

Starts the transfer as soon as you click **Finish** to exit the wizard.

Later

Starts the transfer at the specified time.

Select date, hours and minutes.

Flash Time

Start time of the update phase on the servers.

Immediate after transfer

Starts the update immediately after the transfer.

Later

Starts the update phase at the specified time. If the transfer phase is not finished at the specified time, the update begins immediately after the end of the transfer phase.

Boot Time

Start time of the server reboot (only if **Reboot = yes**).

If all components contained in the job DO NOT require a reboot or reboot automatically (**Reboot = Auto**), the following options are not activated (grayed out).

Immediate after flash

The restart begins immediately after the end of the update phase.

Later

The restart begins at the specified time. If the update phase is not finished at the specified time, the restart begins immediately after the end of the update phase.



The **Boot Time** option has no influence on the booting time of management blades and connection blades. Management blades and connection blades are booted immediately after a flash.

5.1.5.5 Update Details dialog box

The **Update Details** dialog box provides additional information about the update you selected in the table on the **Update Details** tab. The parameters displayed in this dialog box cannot be changed except **Available Versions**.

 If you selected a server of the group **Unsupported Servers** or **Unknown Servers**, no data will be displayed in this dialog.

To open this dialog box, click **Show Details** on the **Update Details** tab.

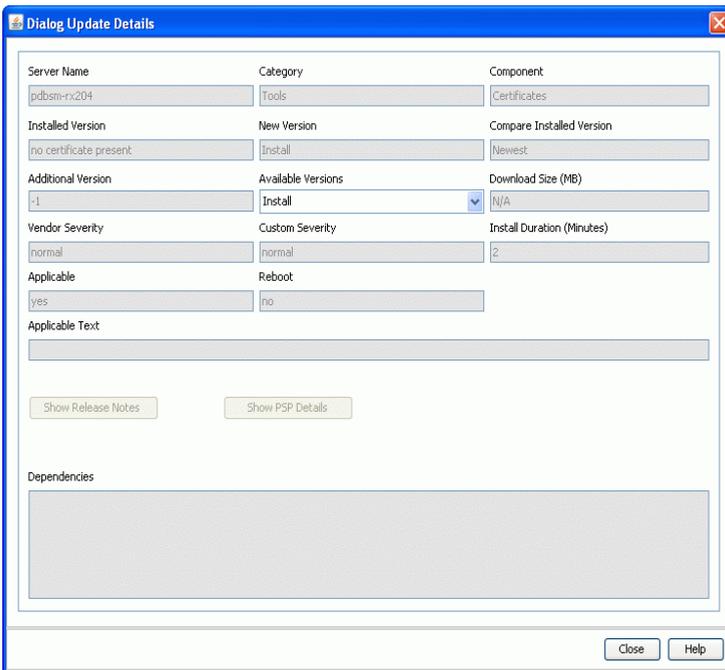


Figure 20: **Update Details** dialog box

Server Name

Name of the server for which the update is relevant.

Category

The group to which the component belongs.

Component

Name of the component.

Installed Version

The version that is currently installed.

New Version

The version that is to replace the installed version.

Compare Installed Version

Evaluates the version displayed in the **New Version** field:

Newest The displayed version is newer than the installed version and, at the same time, is the newest version in the repository.

Oldest The displayed version is older than the installed version and, at the same time, is the oldest version in the repository.

Newer The displayed version is newer than the installed version.

Equal The displayed version is the same as the installed version.

Older The displayed version is older than the installed version.

Additional Version

Internal version of the update package used by the Download Manager.

A component in the repository will be replaced by an update version found on the web server.

Available Versions

All versions of the update available in the repository are displayed.

Download Size (MB)

Memory requirement of the update in megabytes.

Vendor Severity

Severity weighting of the update from the perspective of Fujitsu Technology Solutions.

recommended An update is recommended

mandatory An update is urgently required

normal An update is not required

Custom Severity

Severity weighting of the update from your perspective. You can use this parameter to override the **Vendor Severity** setting.

recommended An update is recommended

mandatory An update is urgently required

normal An update is not required

Install Duration (Minutes)

The installation duration of the update in minutes.

Applicable

yes The component can be installed.

no The component cannot be installed.

Reboot

yes After the job is executed, the servers needs to be rebooted.

no The servers do not needs to be rebooted.

auto (for components of the blade systems group only)

The component itself decides whether a reboot is necessary or not.

Applicable Text

Explanation of why the component cannot be installed.

Dependencies

Displays dependencies that are to be noted in relation to the update.

Buttons

Show Relnotes

Opens the predefined browser, showing the latest release notes.

Show PSP Details

(PSP = PRIMERGY Support Package)

Displays information about the packages included in the selected update.

5.1.5.6 PSP Details dialog box

A PRIMERGY Support Package (PSP) is the basic element for installing and updating drivers and software products on your PRIMERGY server.

A PSP comprises several packages, each containing the different versions of the same driver or software product.

To open this dialog, click **Show PSP Details** in the **Update Details** dialog box or the **Edit Update's Properties** dialog box.

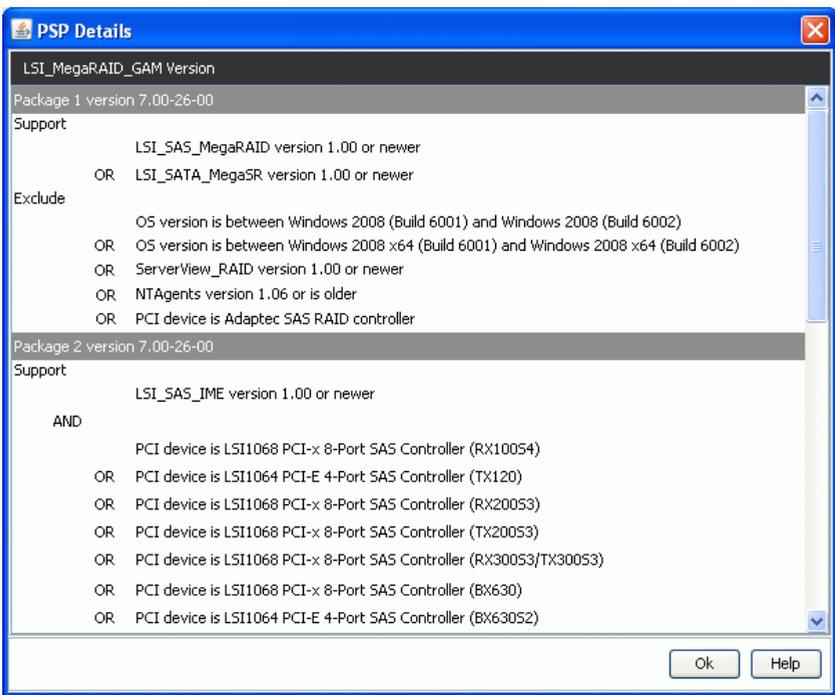


Figure 21: **PSP Details** dialog box

The **PSP Details** dialog box shows information on the individual packages and their dependencies on other components.

In the header you will see the name and version of the PSP.

Below this are blocks of information on the individual packages and their dependencies on other components. The packages are numbered consecutively within the PSP and are each displayed with their version.

Dependencies

All the dependencies together make up the requirements that have to be fulfilled before a package can be installed.



For a package to be installed, ALL dependencies shown for it must be fulfilled.

For each PSP, the first package for which all dependencies are fulfilled is installed.

Support

For each component group, AT LEAST ONE of the specified components must be present on the target system.

All components linked by the **OR** operand belong to a component group.

The individual component groups are linked together by the **AND** operand.

Exclude

Exclusion procedure

NONE of the components marked with **Exclude** are allowed to be on the target system.

All excluded components are linked by the **OR** operand.

Required

ALL the components marked with Required must be on the target system.

All required components are linked by the **AND** operand.

5.1.5.7 Copy Job Wizard

You can use this wizard to copy a job to any server in the domain. The wizard comprises several dialog boxes to guide you through the individual steps. All required steps are displayed in the tree structure on the left.

To open the wizard, select the job you want to copy on the **Job Details** tab and click **Copy Job**.

Choose Server step (Copy Job Wizard)

Choose Server is the first step in the wizard. Here you select the servers to which the job is to be copied.

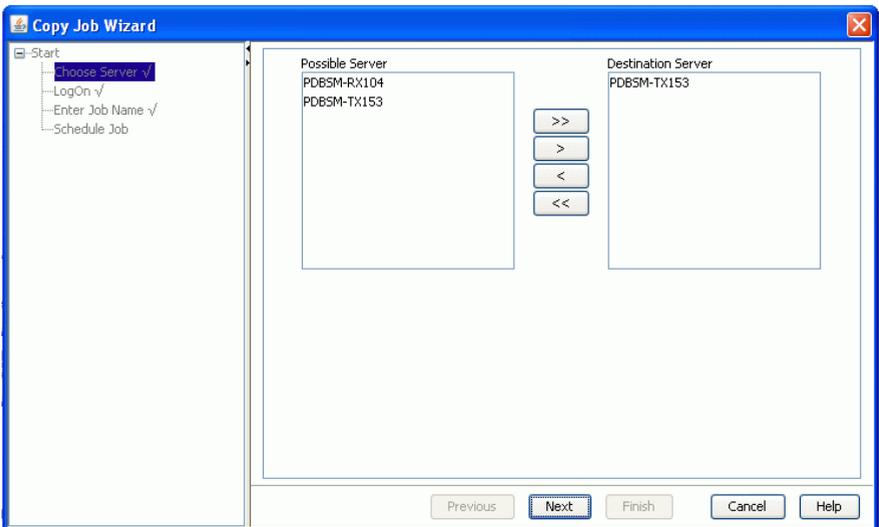


Figure 22: Choose Server step

Possible Servers

A list of available servers to which the job can be copied.

Destination Server

The selected servers to which the job is to be copied.

>>

Copies all servers from the **Possible Server** list to the **Destination Server** list.

>

Copies the servers selected from the **Possible Server** list to the **Destination Server** list.

<

Moves the servers selected from the **Destination Server** list back to the **Possible Server** list.

<<

Moves all servers from the **Destination Server** list back to the **Possible Server** list.

LogOn step (Copy Job Wizard)

LogOn is the second step in the wizard. Here you log on to all servers that require user authentication (**AgentAccess = restricted or not certified**).

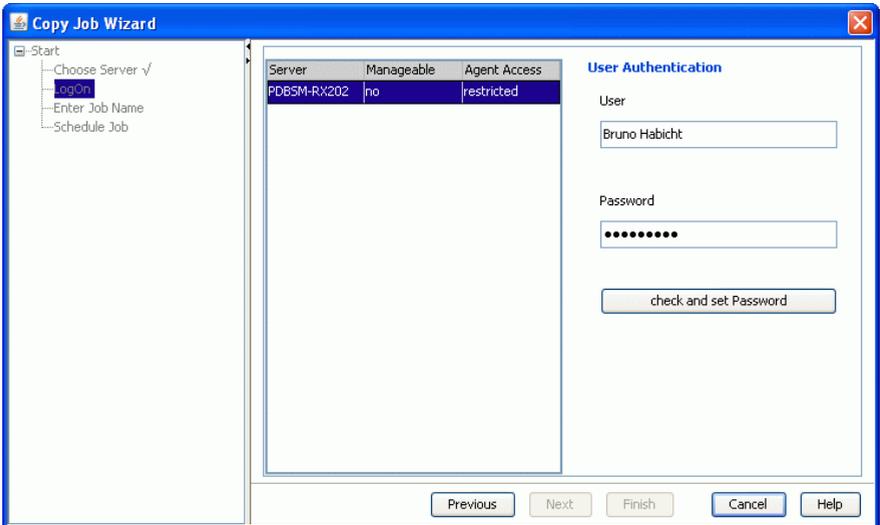


Figure 23: **LogOn** step

The table displays all servers you selected in the **Choose Server** step.



If you have selected servers with an access status other than **restricted** or **not certified**, Update Manager ignores attempts to log on to these servers.

Column	Meaning
Server	Name of the server
Manageable	Availability of the server

Column	Meaning
Agent Access	<p data-bbox="365 248 913 277">Access status of the update agent on the server</p> <p data-bbox="365 304 969 400">granted Logon to the server has already been successfully completed. You have access to the server.</p> <p data-bbox="365 424 973 552">restricted Access to the server is currently restricted. Log on must be performed with the appropriate user ID and password on the server.</p> <p data-bbox="365 576 969 632">unrestricted Logon is not required to access the server.</p> <p data-bbox="365 655 978 783">trusted Since the server was unavailable at the time the logon was attempted, the logon data was saved under the assumption that it was correct.</p> <p data-bbox="365 807 990 919">certified A valid certificate is installed. The managed server is ready for single sign-on.</p> <p data-bbox="365 943 984 1046">not certified No valid certificate is installed. The managed server is not ready for single sign-on.</p>

User Authentication

Login user ID and password for access control.

This parameters are only required if the ServerView update agent on the managed node is configured with AccountCheck.

If the server is to be updated via a TFTP server, enter user ID and password for access to the controller (MMB, switch blade, iRMC)

check and set Password

Checks the logon data and sets the access rights on the selected servers (if **Manageable = yes**). The password is valid for the current session.

If the server is unavailable, the logon data is stored under the assumption that it is correct (if **Manageable = no**).

Remove Server from List

Removes the selected server from the displayed list.

Enter Job Name step (Copy Job Wizard)

Enter Job Name is the third step in the wizard. Here you assign a name to the job.

The screenshot shows the 'Copy Job Wizard' dialog box. On the left, a tree view shows the wizard steps: Start, Choose Server ✓, LogOn ✓, Enter Job Name (highlighted), and Schedule Job. The main area contains the following fields:

- Job Name*:
- Description:
- Server:

PDBSM-RX305-V2
PDBSM-TX101
- Severity:
- Reboot:
- Download Size (MB):
- Install Duration (Minutes):

At the bottom, there are buttons for Previous, Next, Finish, Cancel, and Help.

Figure 24: Enter Job Name step

Job Name

Unique name of the job

Default: JOB_ <sequence number, starts at 1>

Description

Description of the job as a comment (optional)

The following fields are provided for information purposes only. You cannot change the values.



If you create a job for multiple servers simultaneously, it may be that the values of the parameters that should be displayed in the same field are different. In this case, the string "----" will be displayed in this field.

Example:

For one server entered in the job a reboot is necessary after the update (**Reboot=yes**), while for others no reboot is necessary (**Reboot=no**). In this case the Reboot field will show the string "---".

If the parameters that should be displayed in the same field have the same value, this value will be displayed.

Server

Names of the server for which the updates are relevant

Severity

Importance of the updates

recommended An update is recommended

mandatory An update is urgently required

normal An update is not required

If you create a job for a single server, the highest severity weighting of an update contained in the job is displayed (mandatory > recommended > normal).

Reboot

Indicates, whether a reboot is required (**Reboot=yes**) after the job is executed or not (**Reboot=no**).

auto (for components of the blade systems group only)

The component itself decides whether a reboot is necessary or not.

If you create a job for a single server, a reboot is required if at least one update needs a reboot.

Download Size (MB)

Free memory required on the relevant server for installing the updates

Install Duration (Minutes)

Time needed for installing all updates on the relevant server

Enter TFTP step (Copy Job Wizard)

Enter TFTP is the fourth step in the wizard. Here you enter the address of the TFTP server if no update agent is installed on your server. This step is not displayed if the update agent is installed on the relevant servers.

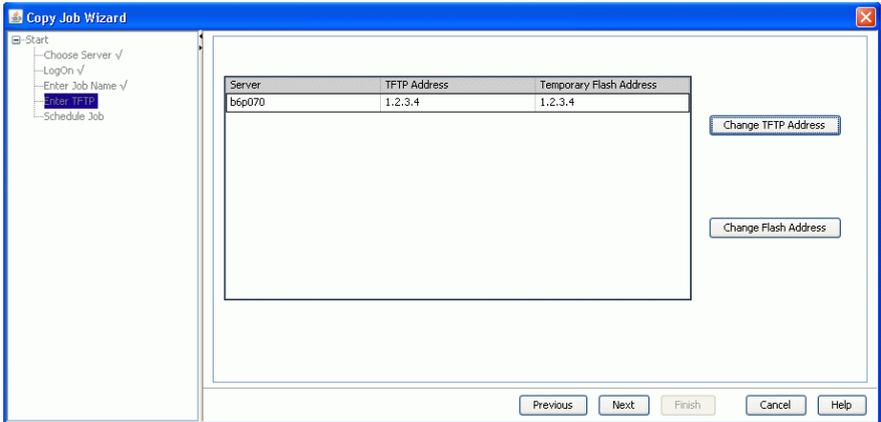


Figure 25: Enter TFTP step

The table shows a subset of the servers selected on the tab.

Column	Meaning
Server	Name of the server
TFTP Address	IP address of the TFTP server
Temporary Flash Address	Temporary IP address used for flashing the management blade (MMBS2 only)

Change TFTP Address

Click this button to change the IP address of the TFTP server for the selected server.

Change Flash Address

Click this button to change the temporary IP address used for flashing the management blade (MMBS2 only).

Schedule Job step (Copy Job Wizard)

Schedule Job is the last step in the wizard. Here you specify the time at which the job is to be executed.

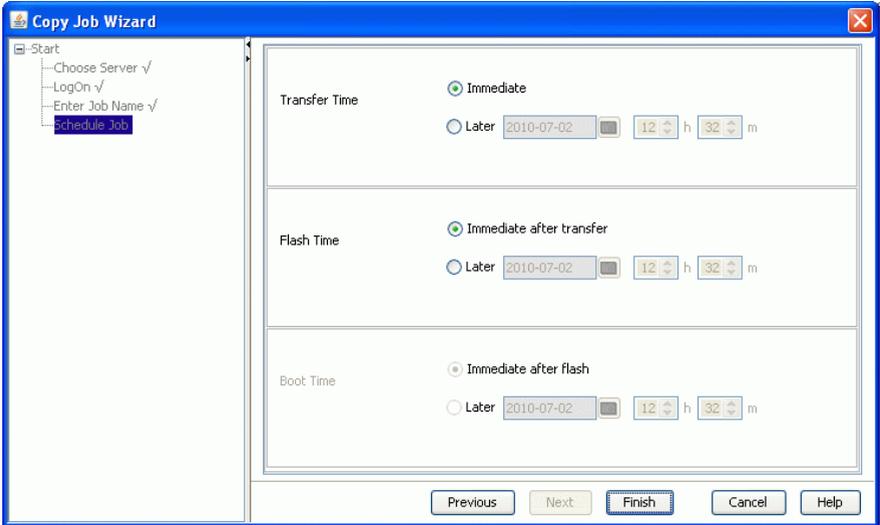


Figure 26: **Schedule Job** step

-  Make sure that the management station and the server on which the job is to run are up and running at the time of execution.

Transfer Time

Start time for transferring the job to the server.

Immediate

Starts the transfer as soon as you click **Finish** to exit the wizard.

Later

Starts the transfer at the specified time.
Select date, hours and minutes.

Flash Time

Start time of the update phase on the servers.

Immediate after transfer

Starts the update immediately after the transfer.

Later

Starts the update phase at the specified time. If the transfer phase is not finished at the specified time, the update begins immediately after the end of the transfer phase.

Boot Time

Start time of the server reboot (only if **Reboot = yes**).

If all components contained in the job DO NOT require a reboot or reboot automatically (**Reboot = Auto**), the following options are not activated (grayed out).

Immediate after flash

The restart begins immediately after the end of the update phase.

Later

The restart begins at the specified time. If the update phase is not finished at the specified time, the restart begins immediately after the end of the update phase.



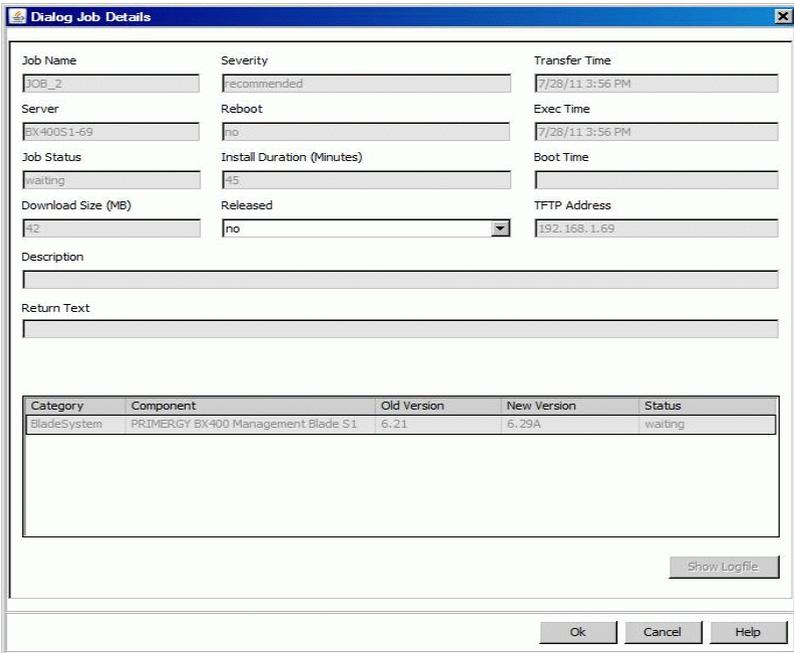
The **Boot Time** option has no influence on the booting time of management blades and connection blades. Management blades and connection blades are booted immediately after a flash.

5.1.5.8 Job Details dialog box

The **Job Details** dialog box provides a clear and detailed overview of information relating to the job you selected on the **Job Details** tab.

 If you selected a server of the group **Unsupported Servers** or **Unknown Servers**, no data will be displayed in this dialog.

To open this dialog box, click **Show Details** on the **Job Details** tab.



Category	Component	Old Version	New Version	Status
BladeSystem	PRIMERGY BX-400 Management Blade S1	6.21	6.29A	waiting

Figure 27: **Job Details** dialog box

You may only change the **Released** parameter in this dialog box. No other parameters can be changed.

Job Name

Name of the selected job

Severity

Cumulated severity weighting of the updates contained in the job. The highest severity weighting of an update is displayed (mandatory > recommended > normal).

recommended An update is recommended

mandatory An update is urgently required

normal An update is not required

Transfer Time

Start time for transferring the update from the management station to the PRIMERGY servers

Server

Name of the server

Reboot

This setting indicates whether at least one of the updated servers must be restarted (**Reboot = yes**), or alternatively, none of the servers need to be restarted (**Reboot = no**) after the job is executed.

auto (for components of the blade systems group only)

The component itself decides whether a reboot is necessary or not.

Exec Time

Start time for the update phase

Job Status

Current job status

waiting The job is waiting to be executed (this is the status before the data transfer begins).

transferring The job is currently being transferred.

transferred The job has been successfully transferred and is now waiting for the start of the update procedure.

flashing	The job is currently in the update phase.
flashed	The update has been performed successfully on the server.
rescanning	The inventory of the server is being redetermined.
rebooting	The server is currently rebooting.
done	All components have been updated and the job is now completed.
error	Possible reasons: <ul style="list-style-type: none">• The update of at least one component failed.• Check-Job was not successful• Cleanup-Job was not successful• Status could not be retrieved
manager abort	The management station was restarted while the job was being executed, see " Notes on management stations " on page 20.

Install Duration (Minutes)

Duration of the installation in minutes

Boot Time

Start time for the boot process (if **Reboot = yes**)

Download Size (MB)

Memory required for the update in megabytes

Released

This setting specifies whether the job is released (**yes**) or not released (**no**) for execution on other PRIMERGY servers.

TFTP Adress

IP address of the TFTP server

Description

Description of the job (comment)

Return Text

In the event of an error, this field contains the error message of the error that occurred.

The error messages are described in section "[Error messages in the Update Manager](#)" on page 261.

Category/Component/Old Version/New Version/Status

Table containing version and status information about the updates contained in the job

Buttons

Show Logfile

Displays the log file of the selected job

This button is only activated for jobs that are completed or in process.

5.1.5.9 Edit Job dialog box

In the **Edit Job** dialog box you can change the properties **Job Name**, **Released** and **Description** for the job you selected on the **Job Details** tab.

Transfer Time, **Flash Time** and **Boot Time** only can be changed, if the **Job Status = Waiting**.

To open this dialog box, click **Edit Job** on the **Job Details** tab.

Dialog Edit Job

Job Name: Job_1

Released: yes

Description: Installation of certificates

Transfer Time: Immediate
 Later 2011-04-21 11 h 0 m

Flash Time: Immediate after transfer
 Later 2011-04-22 12 h 0 m

Boot Time: Immediate after flash
 Later 2011-04-22 12 h 0 m

Ok Cancel Help

Figure 28: **Edit Job** dialog box**Job Name**

Name of the selected job.

Released

This setting specifies whether the job is released (**yes**) or not released (**no**) for execution on other PRIMERGY servers.

Description

Description of the job (comment).

Transfer Time

Start time for transferring the job to the server.

Immediate

Starts the transfer as soon as you click **Finish** to exit the wizard.

Later

Starts the transfer at the specified time.

Select date, hours and minutes.

Flash Time

Start time of the update phase on the servers.

Immediate after transfer

Starts the update immediately after the transfer.

Later

Starts the update phase at the specified time. If the transfer phase is not finished at the specified time, the update begins immediately after the end of the transfer phase.

Boot Time

Start time of the server reboot (only if **Reboot = yes**).

If all components contained in the job DO NOT require a reboot or reboot automatically (**Reboot = Auto**), the following options are not activated (grayed out).

Immediate after flash

The restart begins immediately after the end of the update phase.

Later

The restart begins at the specified time. If the update phase is not finished at the specified time, the restart begins immediately after the end of the update phase.



The **Boot Time** option has no influence on the booting time of management blades and connection blades. Management blades and connection blades are booted immediately after a flash.

5.1.5.10 Change TFTP Address dialog box

In the **Change TFTP Address** dialog box you enter the IP address of the TFTP server that you want to use.

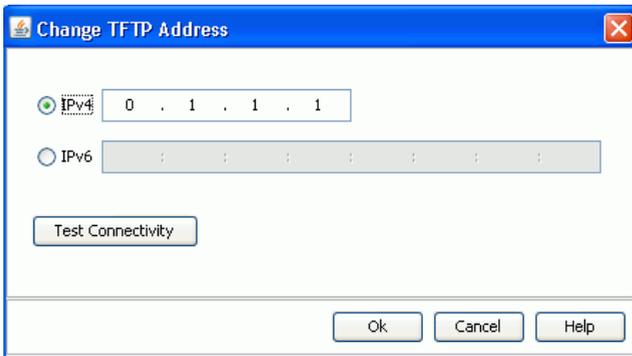


Figure 29: **Change TFTP Address** dialog box

IPv4

IP address in the format of Internet Protocol Version 4.

IPv6

IP address in the format of Internet Protocol Version 6.

Test Connectivity

Tests if a connection can be established to the specified IP address using the "ping" function.

5.1.5.11 Change Flash Address dialog box

In the **Change Flash Address** dialog box, you enter a free IP address that you want to use for flashing the management blade (MMB S2 only).



Figure 30: **Change Flash Address** dialog box

IPv4

IP address in the format of Internet Protocol Version 4.

IPv6

IP address in the format of Internet Protocol Version 6.

Test Availability

Tests if the specified IP address is available.

5.2 Repository Manager Main Window

Repository Manager allows you to administer the repository.

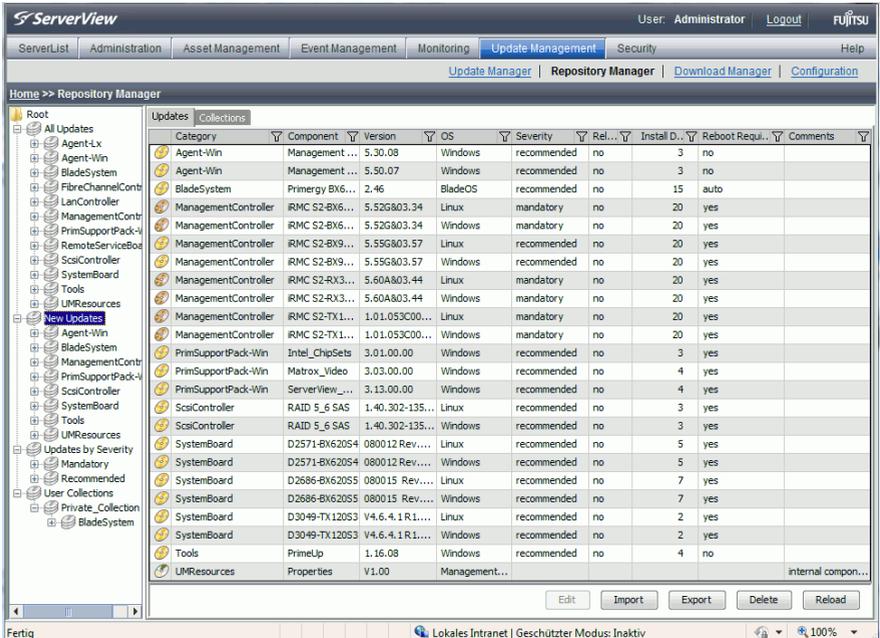


Figure 31: Repository Manager Main Window

The main window of the Repository Manager displays the current contents of the repository and contains the following elements (from top to bottom):

- the ServerView Suite header
- the ServerView Suite menu bars
- the work area, with a tree structure on the left and various tabs on the right

5.2.1 The tree structure

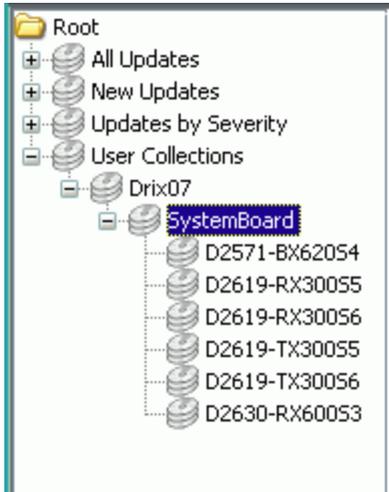


Figure 32: **Repository Manager** tree structure

The tree structure, which is on the left, shows the updates that are available in the Repository Manager. In the tree structure, you select which data you want to display in the table on the **Updates** tab and the **Collections** tab.

The tree structure is shown with the following groups, in which the relevant components are listed:

All Updates

All updates in the repository.

New Updates

New updates in the repository that have been downloaded by the Download Manager or that have been imported via the import function. These updates are automatically deleted from the **New Updates** group after a period of two weeks.

If the repository is reloaded using the **Reload** button on the **Updates** tab, the elapsed time will be set to 0 and the time counter starts again.

Updates By Severity

All updates that are recommended (**recommended**) or urgently required (**mandatory**).

Released Updates

Updates that are **explicitly** released by the user. This group only appears if there is at least one "released" update.

User Collections

Customized groups, which you can create and manage on the **Col-lections** tab.

This node does not appear if you have not yet defined any customized groups.

5.2.2 Updates tab

All entries belonging to the group you selected in the tree structure are displayed in the table on the **Updates** tab.

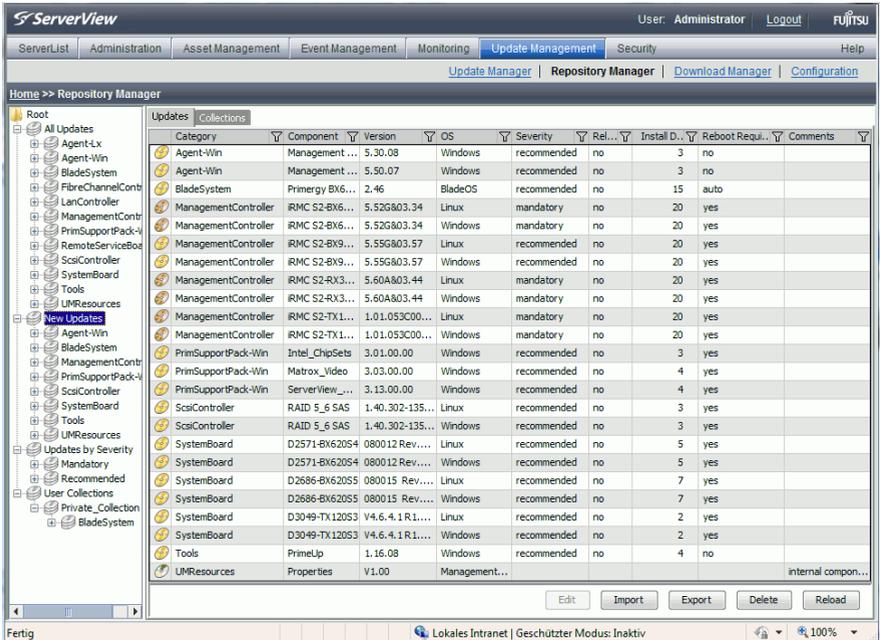


Figure 33: Updates tab



In the table, a context menu is available. To open the context menu, right-click an entry in the table.

The columns in the table have the following meanings:

Column	Meaning
Update status (icon)	Urgency of the update  An update is recommended.  An update is urgently required.  An update is not required.
Category	Name of the component group
	Opens the Filtering for <column> dialog box, where you specify which rows are to be displayed in the table.
Component	Name of the component
Version	Version of the update
OS	Operating system variant
Severity	Urgency of the update recommended An update is recommended. mandatory An update is urgently required. normal An update is not required.
Released	Shows whether the update is released (yes) for execution on other PRIMERGY servers or not (no).
Install Duration	The installation duration of the update in minutes

Column	Meaning
Reboot Required	Shows whether server reboot is either required (yes) or not required (no) after the update. auto (for components of the blade systems group only) The component itself decides whether a reboot is necessary or not.
Comments	Comments about the update

Buttons

Edit

Opens the **Edit Update** dialog box in which you can edit the **Custom Severity**, **Released** and **Comment** parameters of an update.

Import

Opens the **Import Repository Components** dialog box, in which you can update your repository on the management station by importing new components from the ServerView Update DVD or another existing repository.

All update components found in the specified directory (including all sub-directories) will be added to the existing repository on the management station if they are newer.



If you want to replace your complete repository, do this using the Configuration Wizard.

Export

Opens the **Export Repository Components** dialog box, in which you can select components from your repository for exporting them to a directory of your choice.

Delete

Opens the **Delete Repository Components** dialog box, in which you can select components from your repository that you no longer need and that can be deleted.

-  Deleting components is only possible if the current repository is located on a local HDD partition of your computer or on an external USB storage device.

Components which are used in an update job cannot be deleted. You have to remove them from the update job at first.

Reload

Reloads the repository and updates the database entries. A recollection of the inventory data for all servers is executed in the background.

If the repository is reloaded, the elapsed time for the updates in the New Updates group in the tree structure will be set to 0 and the time counter starts again.

-  The repository only needs be reloaded if an update was added manually.

Additional function in the context menu

Release

Releases the selected updates for execution on other PRIMERGY servers (for example, after they have been processed without errors on a test host).

5.2.3 Collections tab

The functions provided on the **Collections** tab allow you to create and manage customized update groups. The groups you create here are displayed under **User Collections** in the tree structure.

If you have not yet created any groups, the tree structure will not contain a node for User Collections and the tab is also blank.

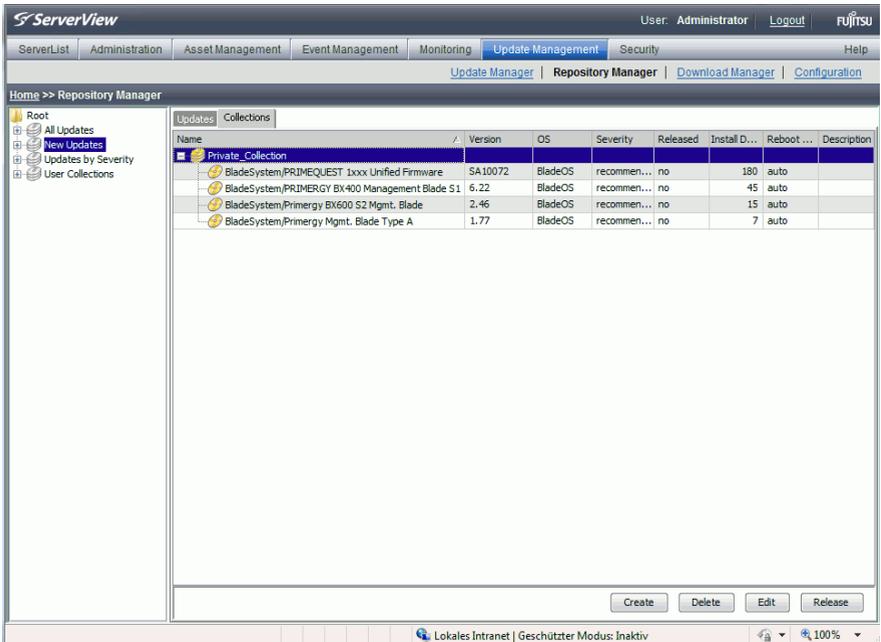


Figure 34: Collections tab

 In the table, a context menu is available. To open the context menu, right-click an entry in the table.

The columns in the table have the following meanings:

Column	Meaning
Name	<p>Name and cumulated update status of the collection</p> <ul style="list-style-type: none">  Collection contains at least one component for which an update is recommended.  Collection contains at least one component for which an update is urgently required.  Collection contains no components that needs updating. <p>Name and update status of the component</p> <ul style="list-style-type: none">  An update is recommended.  An update is urgently required.  An update is not required.
Version	Version of the update
OS	Operating system variant
Severity	<p>Urgency of the update</p> <p>recommended An update is recommended.</p> <p>mandatory An update is urgently required.</p> <p>normal An update is not required.</p>
Released	Shows whether the update is released (yes) for execution on other PRIMERGY servers or not (no).
Install Duration	The installation duration of the update in minutes

Column	Meaning
Reboot Required	Indicates whether server reboot is either required (yes) or not required (no) after the update. auto (for components of the blade systems group only) The component itself decides whether a reboot is necessary or not.
Description	Description of the component

Buttons

Create

Opens the **Create Collection** dialog box, where you can create a customized group.

Delete

Deletes the groups you selected on the tab.

Edit

Opens the **Edit Collection** dialog box, where you can edit the settings for the selected group.

Release

Releases the selected groups for future use.

5.2.4 Dialog boxes

The Repository Manager provides the following dialog boxes:

- **Edit Update's Properties** dialog box
 - **Show Release Notes** dialog box
 - **Show PSP Details** dialog box
- **Import Repository Components** dialog box
 - **Import Repository Components - Results** dialog box
- **Export Repository Components** dialog box
 - **Export Repository Components - Results** dialog box
- **Delete Repository Components - Results** dialog box
 - **Delete Repository Components - Results** dialog box
- **Create Collection** dialog box
- **Edit Collection** dialog box

5.2.4.1 Edit Update's Properties dialog box

The **Edit Update's Properties** dialog box provides a clear and detailed overview of information relating to the update you selected on the **Updates** tab. Almost none of the parameters in this dialog box can be changed. The following properties of an update can be changed:

- **Released**
- **Custom Severity**
- **Comment**

To open this dialog box, click **Edit** on the **Updates** tab.

5 User Interface

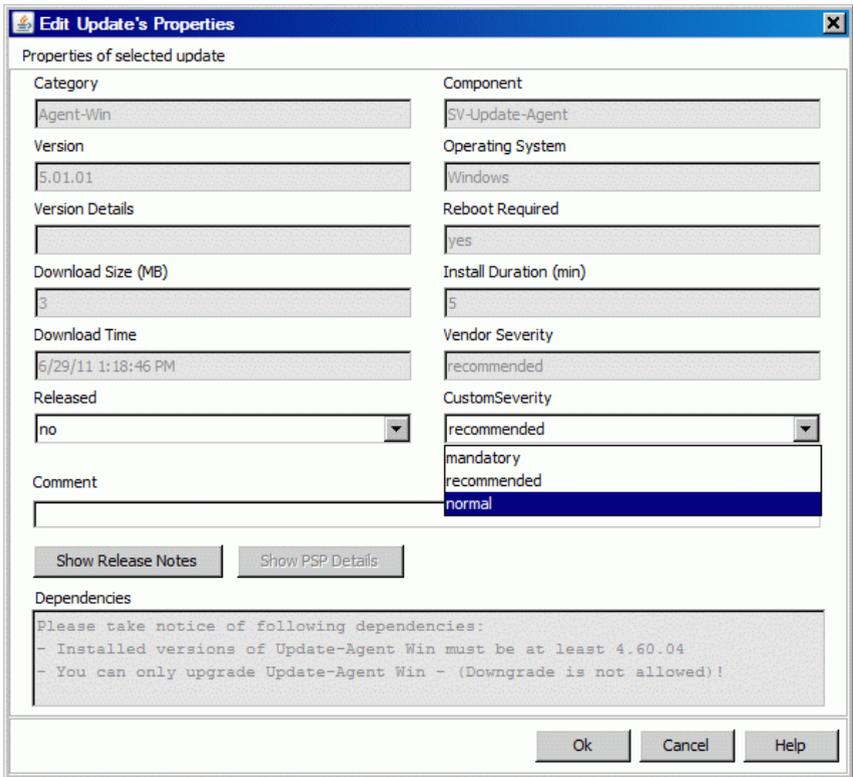


Figure 35: **Edit Update's Properties** dialog box

Category

The group to which the component belongs.

Component

Name of the component.

Version

Update version.

Operating System

The relevant operating system.

Version Details

Details of the update version.

Reboot Required

Indicates whether server reboot is either required (**yes**) or not required (**no**) after the update.

auto (for components of the blade systems group only)

The component itself decides whether a reboot is necessary or not.

Download Size (MB)

Memory requirement of the update in megabytes.

Install Duration (min)

The installation duration of the update in minutes.

Download Time

Time at which the updates are transferred from the web server to the repository.

Vendor Severity

Severity weighting of the update from the perspective of Fujitsu Technology Solutions.

recommended An update is recommended

mandatory An update is urgently required

normal An update is not required

Released

Releases the selected updates (**yes**) for execution on other PRIMERGY servers (for example, after they have been processed without errors on a test host) or not (**no**).

Custom Severity

Severity weighting of the update from your perspective. You can use this parameter to override the **Vendor Severity** setting.

recommended An update is recommended

mandatory An update is urgently required

normal An update is not required

Comment

Description of the update (comment).

Dependencies

Dependencies that are to be noted in relation to the update.

Buttons

Show Relnotes

Opens the predefined browser, showing the latest release notes.

Show PSP Details

(PSP = PRIMERGY Support Package)

Displays informations about the packages included in the selected update.

5.2.4.2 Import Repository Components dialog box

To open this dialog box, click **Import** on the **Updates** tab.

 If you want to replace your complete repository, do this using the Configuration Wizard.

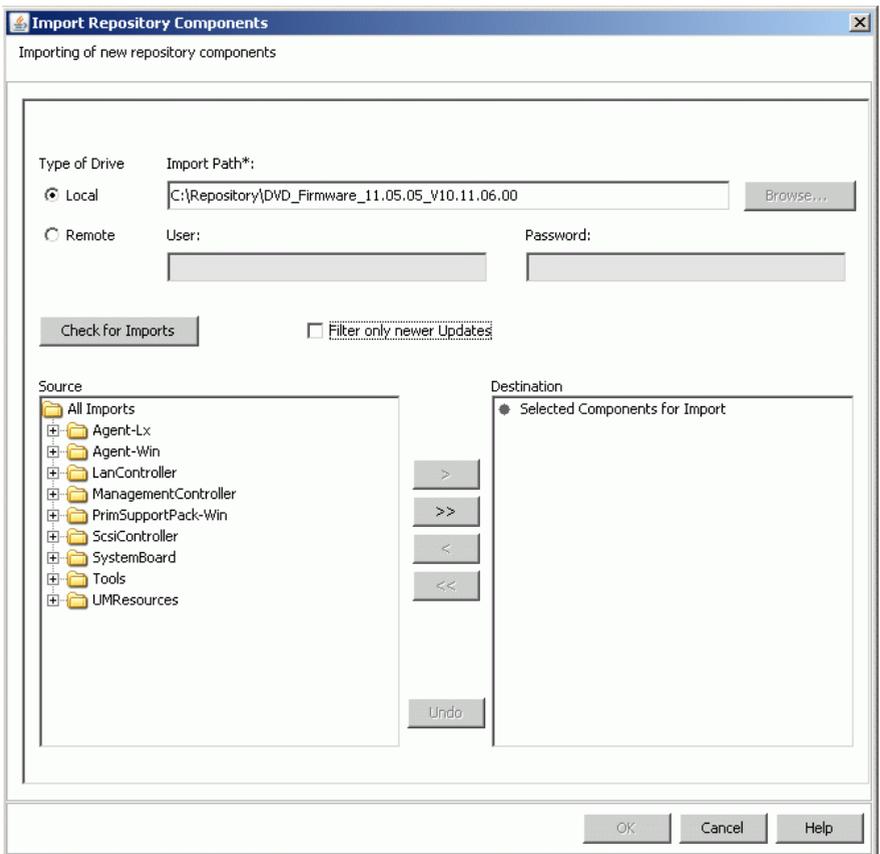


Figure 36: **Import Repository** dialog box



Importing components is only possible if the current repository is located on a local HDD partition of your computer or on an external USB storage device.

You can update your repository on the management station by importing new components from a local or remote repository, e.g. the ServerView Update DVD or another existing repository, to the current repository. In the **Import Path** field, specify the directory that contains the update components to be imported and click **Check for Imports**.

After the process has finished, all components found in the specified directory (including all subdirectories) are shown in the **Source** list on the left. If you only want newer updates to be displayed, enable the **Filter only newer updates** option.

Copy all desired components from the **Source** list on the left to the **Destination** list on the right and click **OK**.

All selected update components will be added to the existing repository on the management station if they did not exist before. If an older version of a component exists the newer version is additionally added to the local repository.

While the import to the repository is running, a progress bar is displayed.



If you abort the process by clicking **Cancel**, the import will be stopped and the result dialog box will show all components which are already imported.

Type of Drive

local

The import path is located on the local management station.

remote

The import path is located somewhere in the network. This option is only available for Windows management stations.

If you enable this option, you have to enter **User** and **Password**.

Import Path

Absolute path of the directory to be imported. This directory may be the root of an existing repository or any subdirectory.



The **Browse** button is only enabled, if you started the ServerView Operations Manager on the management station directly.

Check for Imports

Checks the directory defined in the **Import Path** field for available components. All found components are displayed in the **Source** list on the left.

Filter only newer Updates

If you enable this option, only newer updates are shown in the **Source** list on the left.

Source

This list shows all /all newer components available for import.

Components can be imported from a local or a remote repository.

Destination

This list shows all components selected from the **Source** list.

The selected components will be imported into the current repository.

5.2.4.3 Import Repository Components - Results dialog box

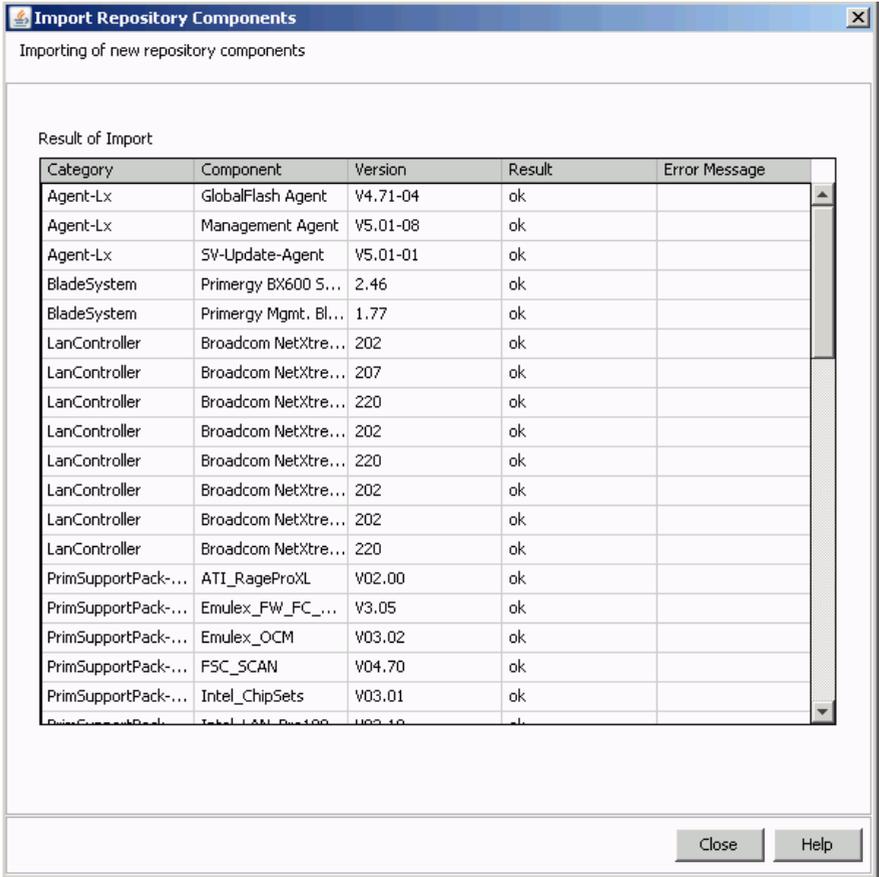


Figure 37: Import Repository Components - Results

This dialog shows the result of importing components into the current repository.

Category

Name of the component group.

Component

Name of the component.

Version

Version of the update.

Result**ok**

Component has been imported.

error

Import failed.

ErrorMessage

Explanation why the import failed.

5.2.4.4 Export Repository Components dialog box

To open this dialog box, click **Export** on the **Updates** tab.

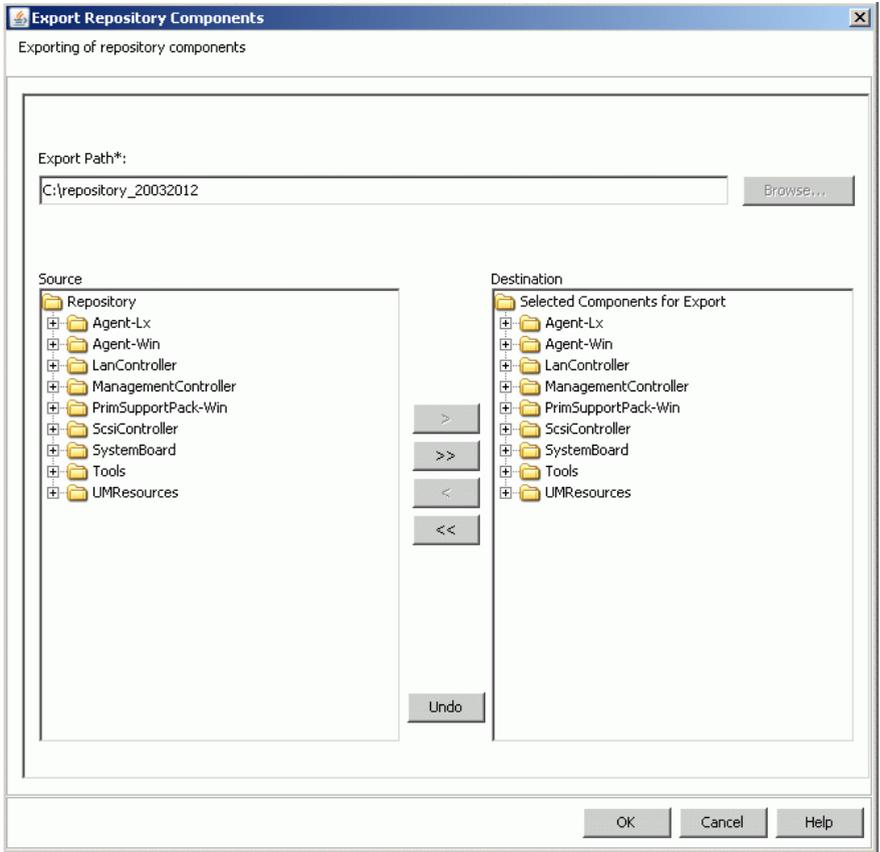


Figure 38: Export Repository Components dialog

 Exporting components is only possible if the current repository and the target directory are located on a local HDD partition of your computer or on an external USB storage device.

In the **Source** list on the left, all components of the current repository are displayed.

First, select the absolute path of the directory where the desired components should be exported to. This directory may be located on a local HDD partition of your computer or on an external USB storage device.

Then copy the components you want to be exported from the **Source** list to the **Destination** list.

To export the selected components, click **OK**.

While the components are exported, a progress bar is displayed.



If you abort the process by clicking **Cancel**, the export will be stopped and the result dialog box will show all components which are already exported.

Export Path

Absolute path of the directory where the selected components should be exported to.

For selecting the desired directory, use the **Browse...** button.

Source

This list shows all components contained in the current repository.

Destination

This list shows all components selected from the **Source** list.

5.2.4.5 Export Repository Components - Results dialog box

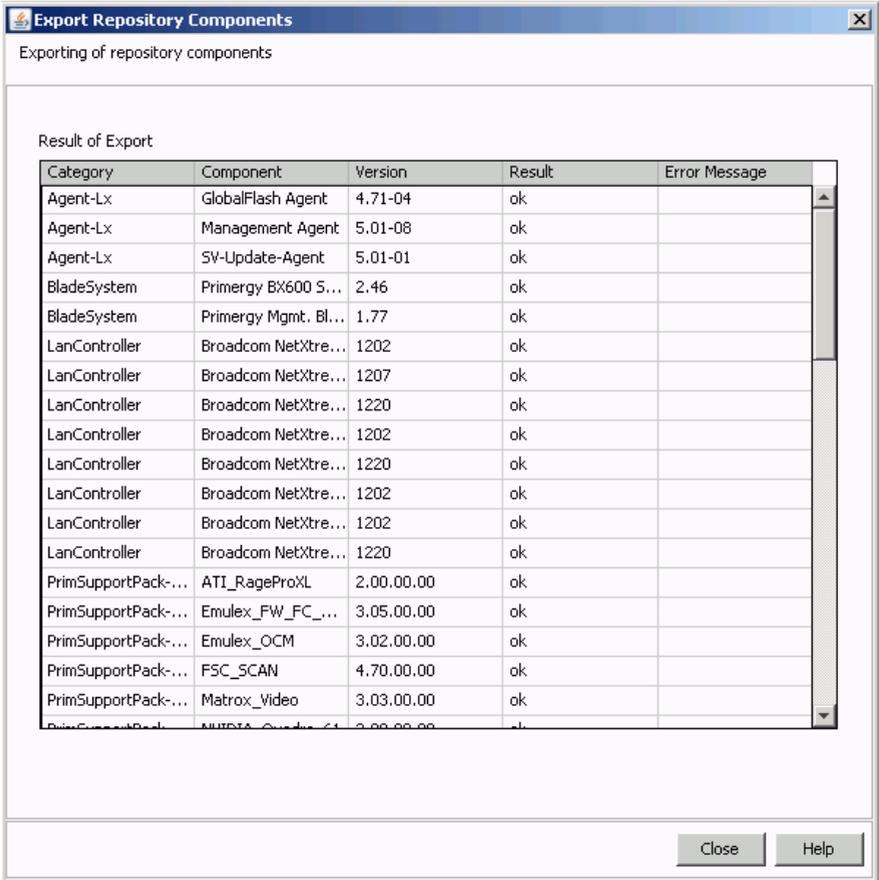


Figure 39: Export Repository Components - Results dialog

This dialog shows the result of exporting components from the current repository to the selected export directory.

Category

Name of the component group.

Component

Name of the component.

Version

Version of the update.

Result**ok**

Component has been exported.

error

Export failed.

ErrorMessage

Explanation why the export failed.

5.2.4.6 Delete Repository Components dialog box

To open this dialog box, click **Delete** on the **Updates** tab.

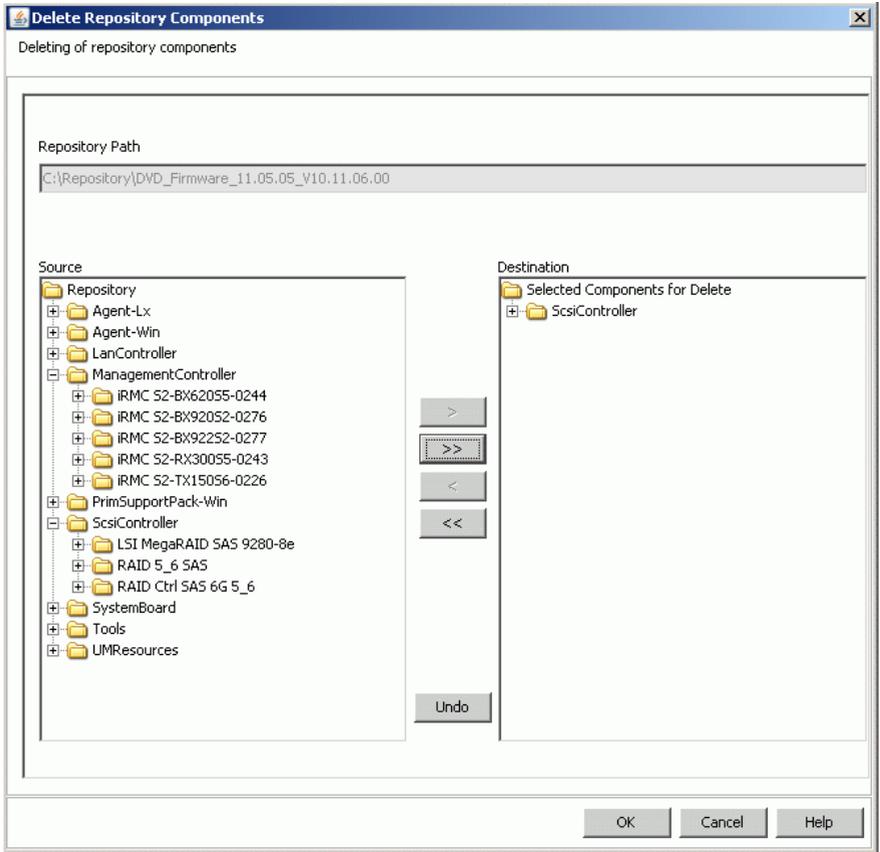


Figure 40: Delete Repository Components dialog

 Deleting components is only possible if the current repository is located on a local HDD partition of your computer or on an external USB storage device.

Components which are used in an update job cannot be deleted. You have to remove them from the update job at first.

In the **Source** list on the left, all components of the current repository are displayed.

Select the components which should be deleted in the **Source** list and copy them to the **Destination** list.

To delete the selected components, click **OK**.

While the selected components are deleted, a progress bar is displayed.



If you abort the process by clicking **Cancel**, the delete process will be stopped and the result dialog box will show all components which are already deleted.

Repository Path

Displays the absolute path where the current repository is located.

Source

This list shows all components contained in the current repository.

Destination

This list shows all components selected from the **Source** list.

5.2.4.7 Delete Repository Components - Results dialog box

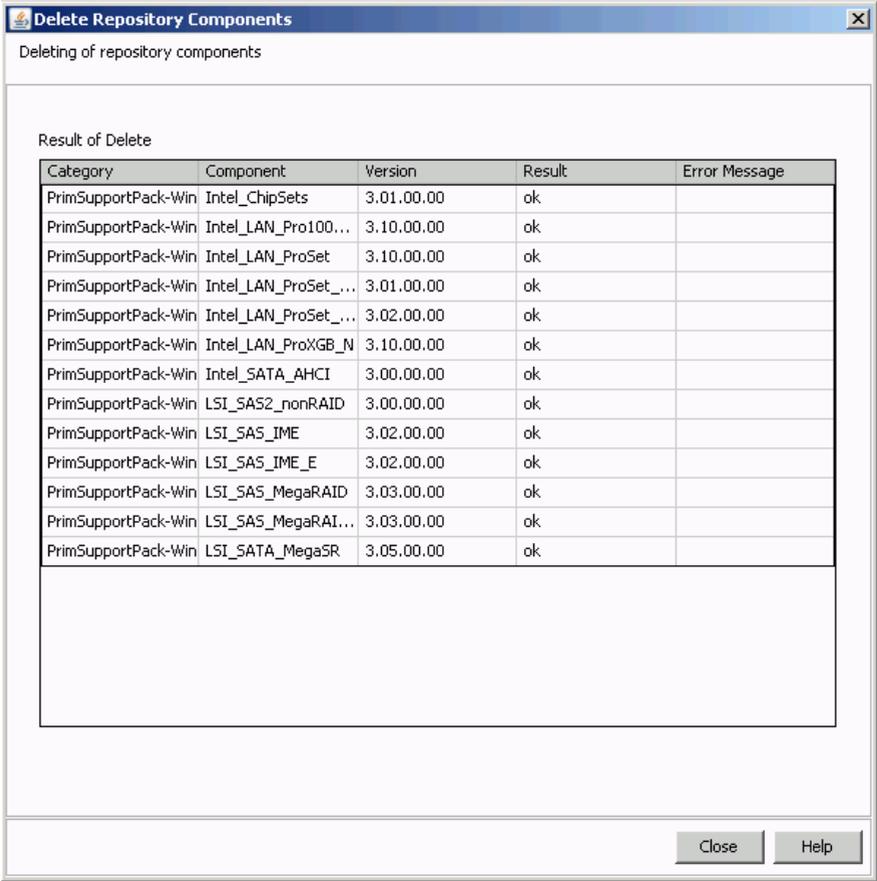


Figure 41: Delete Repository Components - Results dialog

This dialog shows the result of deleting components from the current repository.

Category

Name of the component group.

Component

Name of the component.

Version

Version of the update.

Result**ok**

Component has been deleted.

error

Delete process failed.

in use

The component was not deleted, because it is used in an update job.

ErrorMessage

Explanation why the delete process failed.

5.2.4.8 PSP Details dialog box

A PRIMERGY Support Package (PSP) is the basic element for installing and updating drivers and software products on your PRIMERGY server.

A PSP comprises several packages, each containing the different versions of the same driver or software product.

To open this dialog, click **Show PSP Details** in the **Update Details** dialog box or the **Edit Update's Properties** dialog box.

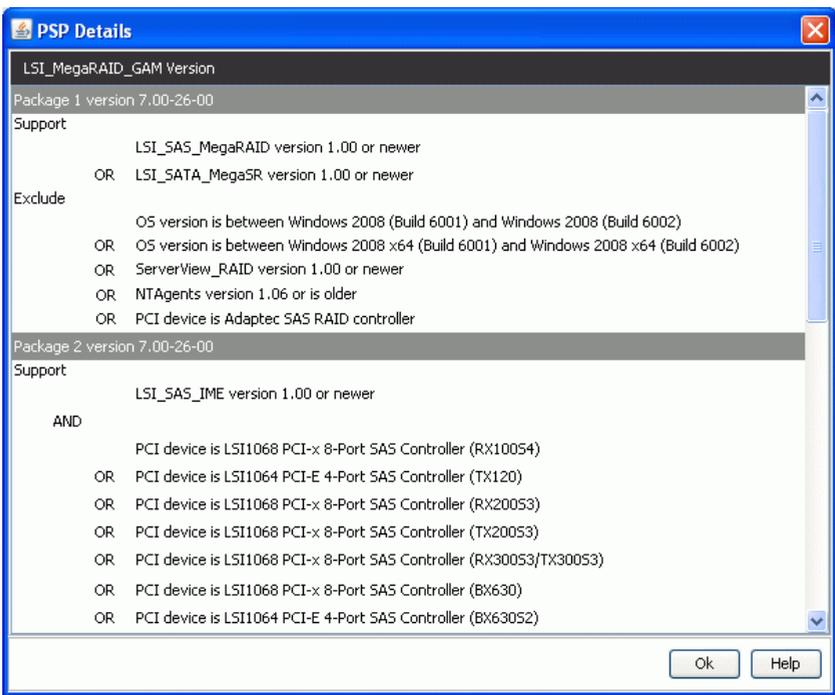


Figure 42: **PSP Details** dialog box

The **PSP Details** dialog box shows information on the individual packages and their dependencies on other components.

In the header you will see the name and version of the PSP.

Below this are blocks of information on the individual packages and their dependencies on other components. The packages are numbered consecutively within the PSP and are each displayed with their version.

Dependencies

All the dependencies together make up the requirements that have to be fulfilled before a package can be installed.



For a package to be installed, ALL dependencies shown for it must be fulfilled.

For each PSP, the first package for which all dependencies are fulfilled is installed.

Support

For each component group, AT LEAST ONE of the specified components must be present on the target system.

All components linked by the **OR** operand belong to a component group.

The individual component groups are linked together by the **AND** operand.

Exclude

Exclusion procedure

NONE of the components marked with **Exclude** are allowed to be on the target system.

All excluded components are linked by the **OR** operand.

Required

ALL the components marked with Required must be on the target system.

All required components are linked by the **AND** operand.

5.2.4.9 Create Collection dialog box

In the **Create Collection** dialog box, you can create customized update groups, which are displayed in the **Update Manager** on the **Update Details** tab under **User Collections**.

To open this dialog box, click **Create** on the **Collections** tab.

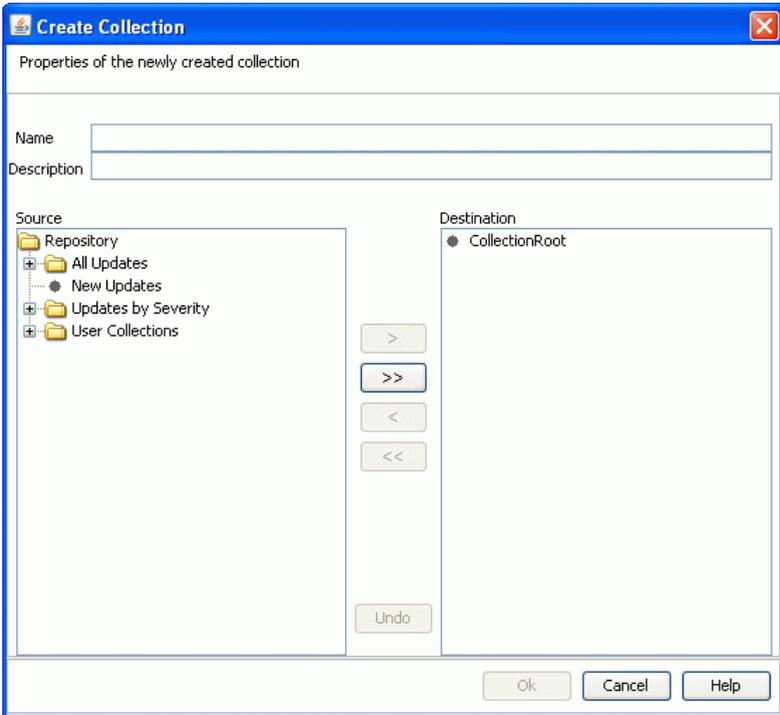


Figure 43: **Create Collection** dialog box

Name

Name of the customized update group.

Description

Description of the customized update group (comment).

Source

The component groups that are available for selection.

Destination

The component groups that were copied to the user-defined group.

>>

Transfers all component groups to the user-defined group.

>

Transfers the selected component groups to the user-defined group.

<

Deletes the selected component groups from the user-defined group.

<<

Deletes all component groups from the user-defined group.

Undo

Undoes the action last performed in the dialog box.

5.2.4.10 Edit Collection dialog box

You can edit a selected customized update group in the **Edit Collection** dialog box.

To open this dialog box, click **Edit** on the **Collections** tab.

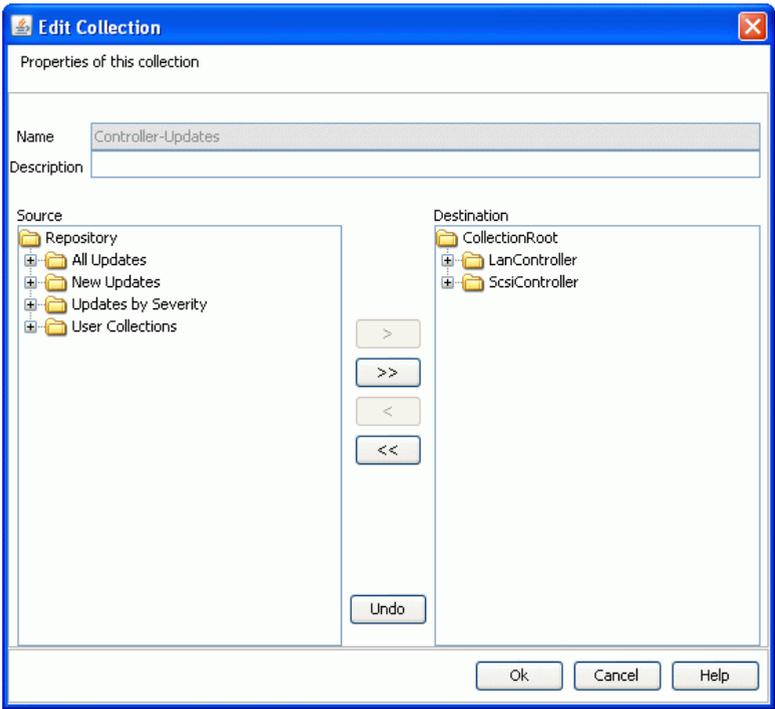


Figure 44: **Edit Collection** dialog box

Name

Name of the customized update group (cannot be changed)

Description

Description of the customized update group (comment).

Source

The component groups that are available for selection.

Destination

The component groups that were copied to the user-defined group.

>>

Transfers all component groups to the user-defined group.

>

Transfers the selected component groups to the user-defined group.

<

Deletes the selected component groups from the user-defined group.

<<

Deletes all component groups from the user-defined group.

Undo

Undoes the action last performed in the dialog box.

5.3 Download Manager Main Window

Use the Download Manager to define download tasks, configure when and how often these are to be executed, and activate the download task by assigning selected servers to it. You can also display information on download tasks already executed.

The Download Service uses the download tasks defined to search for updates for the assigned servers, loads the updates to the default repository, and checks whether updates need to be performed on the servers for which the download task is activated.

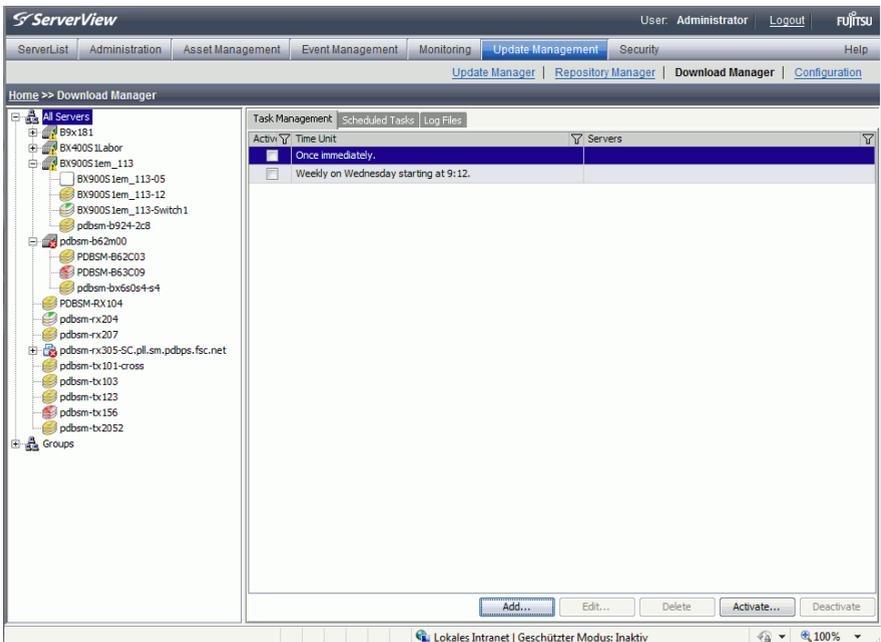


Figure 45: **Download Manager** main window

The main window of the Download Manager contains the following sections, from top to bottom:

- the ServerView Suite header
- the ServerView Suite menu bars
- the work area, with a tree structure on the left and various tabs on the right

5.3.1 The tree structure

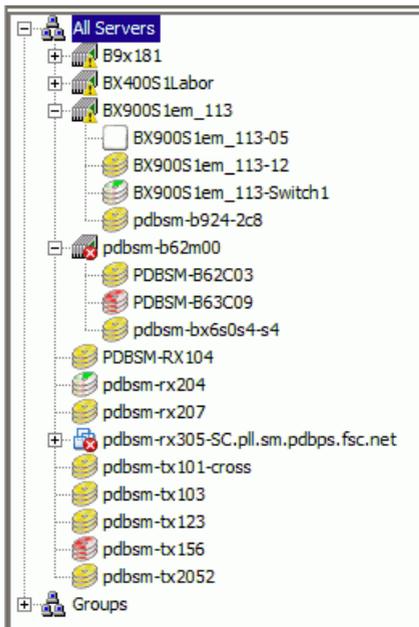


Figure 46: **Download Manager** tree structure

The area on the left of the Download Manager contains a tree structure showing all servers in a domain and the customized groups.

All Servers

Shows the servers in a domain which are supported by the current Update Manager.

Groups

Shows the groups defined by the user.

Server icons

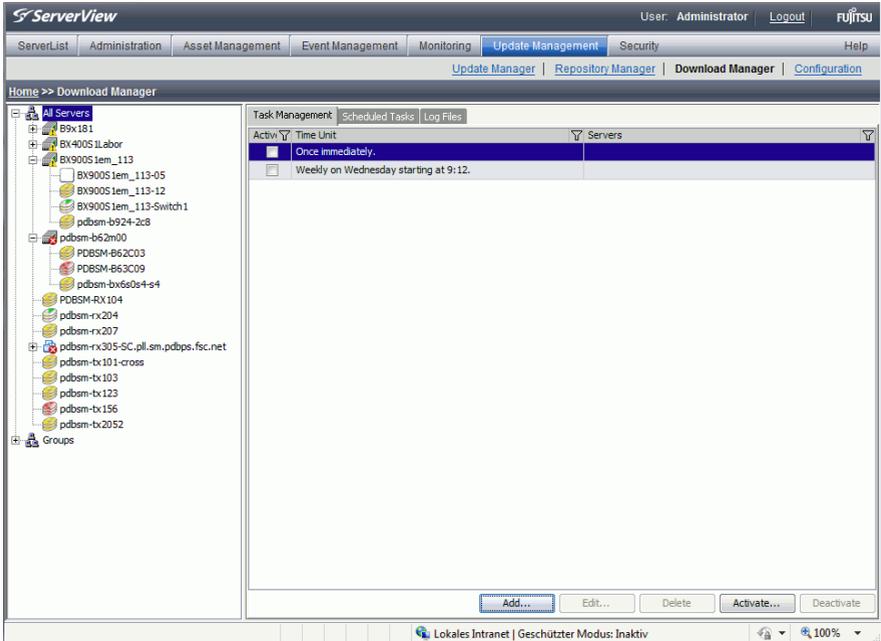
The icon in front of the server in the tree structure indicates the status of the server:

-  No updates or updates with **Severity = normal** are required.
-  Updates with **Severity = recommended** are required.
-  Updates with **Severity = mandatory** are required.
- Undefined, no existing inventory available.

5.3.2 Task Management Tab

The **Task Management** tab shows all currently available download tasks. You can create new download tasks, or change, delete, activate or deactivate existing download tasks.

When creating a download task, you define when, and how often the download task is to be executed, and how many of the related log files are to be saved. In order to use a download task, use the **Activate** function to then assign servers to it for which searches for updates are to be carried out later.

Figure 47: **Task Management** tab

In the table, a context menu is available. To open the context menu, right-click an entry in the table.

Active

Shows whether or not at least one server is assigned to the download task.

Time Unit

Shows a summary of the download schedule entered for the download task.

Servers

Shows the names of the servers assigned to the download task.

Buttons

Add ...

Starts a dialog box in which you specify a new download task.

Edit ...

Starts a dialog box in which you can change the download task selected in the table.

Delete

Deletes the download task selected in the table.

However, you can only delete a download task if NO servers are assigned to it.

Activate ...

Starts a dialog box in which you can assign one or more servers to the download task selected in the table.

Deactivate

Stops the download tasks selected in the table. All servers are removed from the download task.

5.3.3 Scheduled Tasks Tab

This tab contains an overview of the servers available in a domain. The **Schedule** column shows whether the server was assigned to a download task, and if so, to which one.

By selecting certain servers or groups in the tree structure (left), you can restrict the number of servers shown in this tab.

The screenshot shows the ServerView Update Management interface. The left pane displays a tree view of servers under 'All Servers', including groups like 'BX400S Labor' and 'PDBSM-RX104'. The right pane shows the 'Scheduled Tasks' tab with a table of tasks.

Name	Group	Schedule	Last Result	Next Run
TT-BX92463-173.vla...		none	none	none
TT-BX92463-172.vla...		none	none	none
TT-BX92463-170		none	none	none
TT-BX92462-009		none	none	none
TT-BX92053-150.vla...		none	none	none
TT-BX92053-139.vla...		none	none	none
TT-BX92053-130.vla...		none	none	none
pdbsm-tx2052		none	03.02.2012, 14:29:44	none
pdbsm-tx156		none	03.02.2012, 14:29:44	none
pdbsm-tx123		Once immediately.	06.02.2012, 08:17:49	none
pdbsm-tx103		Once immediately.	06.02.2012, 08:17:49	none
pdbsm-tx101-cross		none	06.02.2012, 08:17:49	none
pdbsm-rx305-SC.pli...		Once immediately.	none	none
pdbsm-rx305-SC-host		none	03.02.2012, 14:29:44	none
pdbsm-rx207		none	03.02.2012, 14:29:44	none
pdbsm-rx204		none	03.02.2012, 14:29:44	none
PDBSM-RX104		Once immediately.	none	none
pdbsm-bx650s4-s4		none	03.02.2012, 14:29:49	none
pdbsm-b924-2c8		none	03.02.2012, 14:29:44	none
pdbsm-b920-2c6		none	none	none
PDBSM-B63C09		none	03.02.2012, 14:29:49	none
pdbsm-b62m00		none	03.02.2012, 14:29:44	none
PDBSM-B62C03		none	03.02.2012, 14:29:49	none
BX900S1em_113-Swi...		none	none	none
BX900S1em_113-12		none	03.02.2012, 14:29:44	none

Figure 48: **Scheduled Tasks** tab



In the table, a context menu is available. To open the context menu, right-click an entry in the table.

The columns in the table have the following meanings:

Server icons

The icon in front of the server name indicates the status of the server.

-  No updates or updates with **Severity = normal** are required.
-  Updates with **Severity = recommended** are required.
-  Updates with **Severity = mandatory** are required.
-  Undefined, no existing inventory available.

Name

Shows the name of the server.

Group

Shows the name of the server group.

Schedule

Shows a summary of download schedule for the download task.

Status icons

This icon indicates the status of the download task.

-  Undefined - no download task was started
-  OK - last download task performed was successful
-  Error - last download task performed failed
-  Processing - a check or download is running

Last Result

Shows when a search for updates was last performed successfully.

Next Run

Shows when a search for updates will next be performed.

Buttons

Once Immediately

Click this button to start a search for updates for the servers selected in the table.

Deactivate

Removes the server selected in the table from the assigned download task.

5.3.4 Log Files Tab

This tab contains information on download tasks already completed.

The screenshot shows the ServerView interface with the 'Download Manager' window open. The 'Log Files' tab is selected, displaying a table of completed download tasks. The table columns are: Time, Name, Result, Group, Schedule, and Error. The following table represents the data shown in the screenshot:

Time	Name	Result	Group	Schedule	Error
03.02.2012, 14:29:37	pdbsm-bx2052	03.02.2012, 14:29:44		Once immediat...	
03.02.2012, 14:29:38	pdbsm-bx156	03.02.2012, 14:29:44		Once immediat...	
06.02.2012, 08:17:47	pdbsm-bx123	06.02.2012, 08:17:49		Once immediat...	
03.02.2012, 14:29:38	pdbsm-bx123	03.02.2012, 14:29:44		Once immediat...	
06.02.2012, 08:17:47	pdbsm-bx103	06.02.2012, 08:17:49		Once immediat...	
03.02.2012, 14:29:38	pdbsm-bx103	03.02.2012, 14:29:44		Once immediat...	
06.02.2012, 08:17:47	pdbsm-bx101-cross	06.02.2012, 08:17:49		Once immediat...	
03.02.2012, 14:29:37	pdbsm-bx101-cross	03.02.2012, 14:29:37		Once immediat...	
03.02.2012, 14:29:38	pdbsm-rx305-SC...	none		Once immediat...	
03.02.2012, 14:29:38	pdbsm-rx305-SC...	03.02.2012, 14:29:44		Once immediat...	
03.02.2012, 14:29:38	pdbsm-rx207	03.02.2012, 14:29:44		Once immediat...	
03.02.2012, 14:29:38	pdbsm-rx204	03.02.2012, 14:29:44		Once immediat...	
03.02.2012, 14:29:38	PDBSM-RX104	03.02.2012, 14:29:44		Once immediat...	Download error
03.02.2012, 14:29:38	pdbsm-bx6s0s4-e4	03.02.2012, 14:29:49		Once immediat...	
03.02.2012, 14:29:38	pdbsm-b924-2c8	03.02.2012, 14:29:44		Once immediat...	
03.02.2012, 14:29:38	PDBSM-B63C09	03.02.2012, 14:29:49		Once immediat...	
03.02.2012, 14:29:38	pdbsm-b62m00	03.02.2012, 14:29:44		Once immediat...	
03.02.2012, 14:29:38	PDBSM-B62C03	03.02.2012, 14:29:49		Once immediat...	
03.02.2012, 14:29:38	BX9005Iem_113-12	03.02.2012, 14:29:44		Once immediat...	

Figure 49: Log Files tab



In the table, a context menu is available. To open the context menu, right-click an entry in the table.

The columns in the table have the following meanings:

Status icon

-  OK - Last download task performed was successful
-  Error - last download task performed failed

Time

Shows when the download task was started.

Name

Shows the name of the server.

Result

Shows when the log file was created.

Group

Shows the name of the server group for group tasks.

Schedule

Shows the description of the download task belonging to this entry.

The description changes, if the properties of the download task are changed or the download task is deleted.

Error

Shows what caused a download task to fail in the event of an error.

The error messages are described in section "[Error messages in the Download Manager](#)" on page 266.

Buttons

View

Shows the log file of the download task selected in the table.

Delete

Deletes the log file of the download task selected in the table.

Delete All

Deletes all log files.

This button remains inactive as long as a check or download is running.

5.3.5 Dialog boxes

The Download Manager provides the following dialog boxes.

- **Add Download Server Tasks** dialog box
- **Edit Download Server Task Settings** dialog box
- **Activate Download Server Tasks** dialog box

5.3.5.1 Add Download Server Tasks dialog box

In this dialog box, you specify when and how often a download task will be executed, and whether the related log files are to be saved.

You open the dialog box on the **Task Management** tab by clicking **Add...**

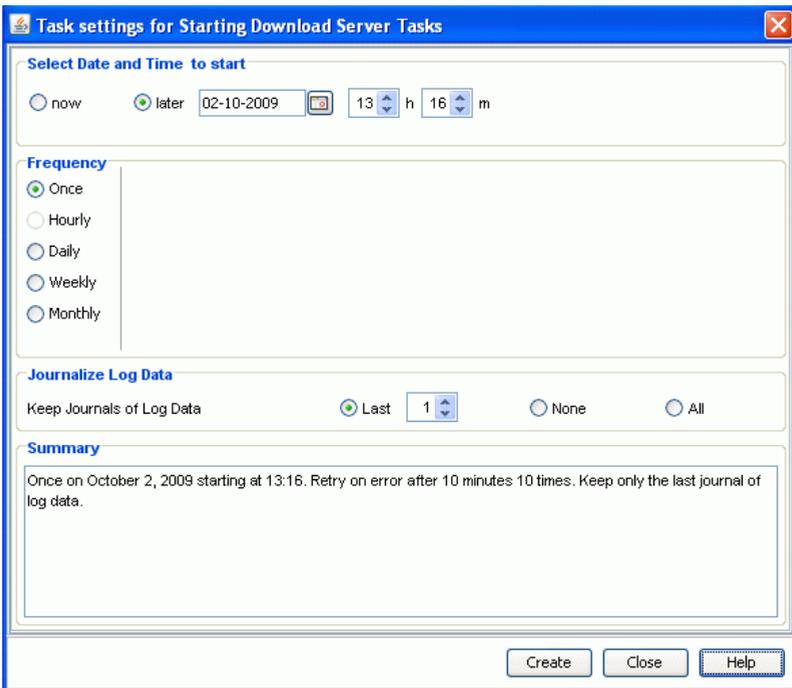


Figure 50: **Add Download Server Tasks** dialog box

Select Date and Time to Start

You specify when the download task is to be executed here.

- now** Starts the download task as soon as it has been activated.
- later** Starts the download task at the specified time. Select the date, hour, and minutes.

Frequency

You specify how often the download task is to be executed here.

- Once** Execute download task once
- Hourly** Execute download task hourly
(This option is currently not available.)
- Daily** Execute download task daily
- Weekly** Execute download task weekly
- Monthly** Execute download task monthly

Journalize Log Data

Here, you specify whether log files are to be saved, and if so, how many.

- Last** Only save the last log files
You can specify the number of last log files.
- None** Do not save any log files
(This option is currently not available.)
- All** Save all log files

Summary

A summary of the values specified is displayed in this output field.

Buttons

Create

Saves the values entered for the download task and closes the dialog box.

Close

Discards the values entered and closes the dialog box.

Help

Opens the help for the current dialog box.

5.3.5.2 Edit Download Server Tasks dialog box

In this dialog box, you change the setting that specifies when a download task is executed and how many of the related log files are to be saved.

To open the dialog box for a previously selected download task, click **Edit ...** on the **Task Management** tab.

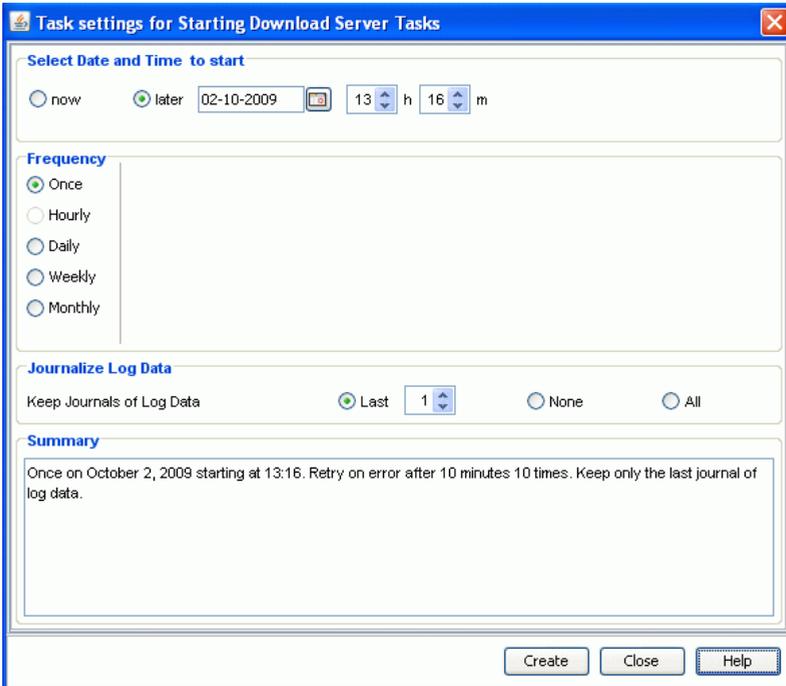


Figure 51: **Edit Download Server Tasks** dialog box

Select Date and Time to Start

You specify when the download task is to be executed here.

- now** Starts the download task as soon as it has been activated.
- later** Starts the download task at the specified time. Select the date, hour, and minutes.

Frequency

You can see how often the download task is to be executed here.

The value can only be changed as long as no server is assigned to this download task.

- Once** Execute download task once
- Hourly** Execute download task hourly
(This option is currently not available.)
- Daily** Execute download task daily
- Weekly** Execute download task weekly
- Monthly** Execute download task monthly

Journalize Log Data

Here, you specify whether log files are to be saved, and if so, how many.

- Last** Only save the last log files
You can specify the number of last log files.
- None** Do not save any log files
(This option is currently not available.)
- All** Save all log files

Summary

A summary of the values specified is displayed in this output field.

Buttons

Create

Saves the values entered for the download task and closes the dialog box.

Close

Discards the values entered and closes the dialog box.

5.3.5.3 Activate Download Server Tasks dialog box

In this dialog box, you assign one or more servers to a download task.

To open the dialog box for a previously selected download task, click **Activate ...** on the **Task Management** tab.

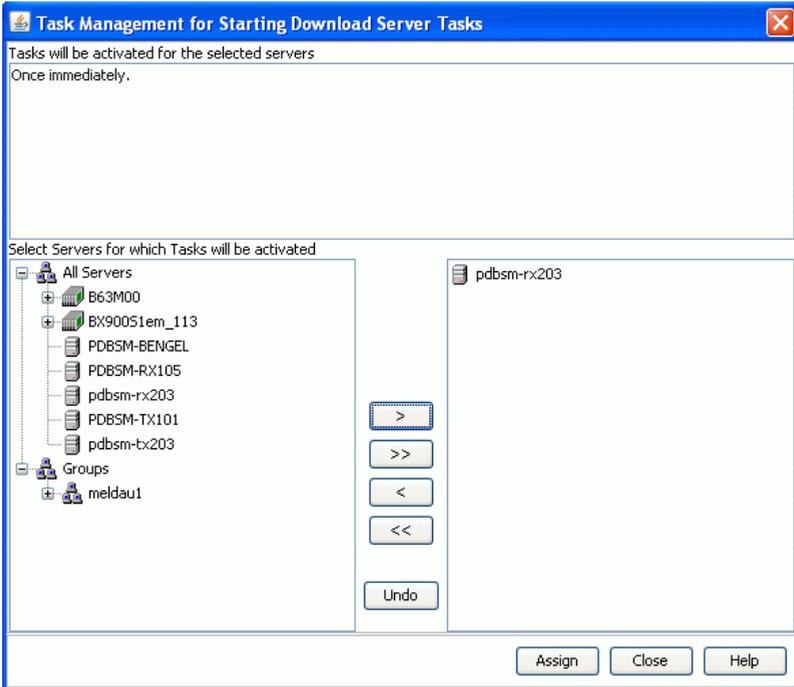


Figure 52: **Activate Download Server Tasks** dialog box

The output field at the top of the window shows a summary of the values specified for the download task.

The area on the left of the window contains a tree structure showing all available servers in the domain and the customized groups. Select the servers you want to assign to the download task here.

The area on the right of the window contains a list of servers assigned to the download task.

Buttons

>>

Copies all servers from the list on the left to the list of servers assigned to the download task on the right.

>

Copies the servers selected in the list on the left to the list of servers assigned to the download task on the right.

<

Removes the entries selected in the list on the right from the list of servers assigned to the download task.

<<

Removes all entries from the list of servers assigned to the download task from the right-hand side of the window.

Undo

Undoes the action last performed in the dialog box.

Assign

Saves the current setting and closes the dialog box.

Close

Discards all changes and closes the dialog box.

Help

Opens the help for the current dialog box.

5.4 Configuration Main Window

The main window contains the following elements (from top to bottom):

- the ServerView Suite header
- the ServerView Suite menu bars
- the work area with the tabs



The **Mail Settings** and the **Download Settings** tab are disabled (grayed out) if you have set a remote repository for updating your software.

You only need these tabs if you want to update your local repository via the **Download Service** (Download Manager).

5.4.1 General Settings Tab

The configuration parameters listed below are displayed on the **General Settings** tab.

To modify the properties click **Change Configuration**.

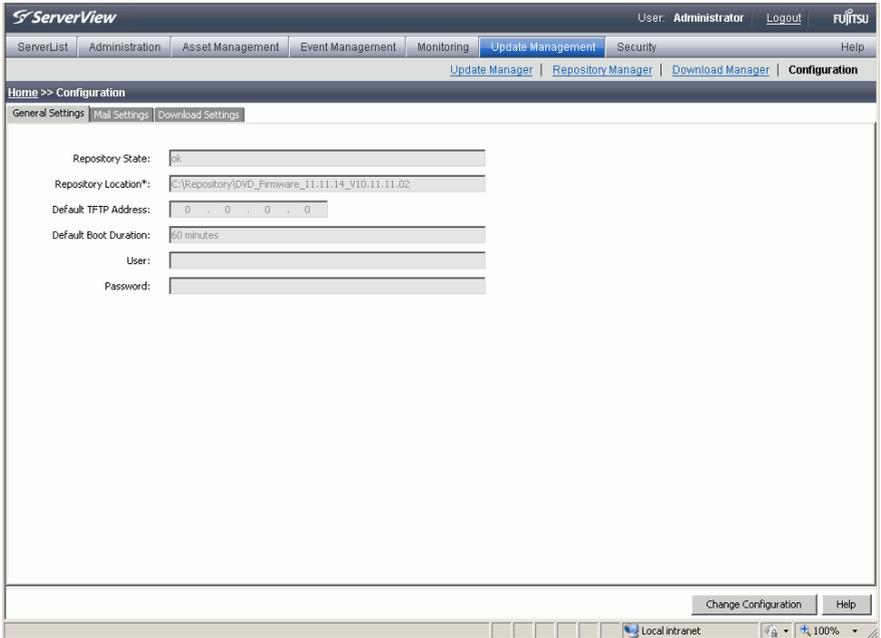


Figure 53: **General Settings** tab

Repository State

State of the repository

ok

File system repository and database table

UpdateRepository are complete

incomplete

Copy to file system failed.

Repository Location

Absolute path of the repository.

Default TFTP Address

IP address of a TFTP server (for components that are updated via TFTP server, e.g. management blades or connection blades).

Default Boot Duration

The length of time that Update Manager waits for an updated server to restart after reboot. The time you enter here is added to the length of time the server is unavailable during the update. If the duration is exceeded, the job is set to status **error**.

For Windows management station only:

If the repository is located on another system in the network instead of the local management station:

User

User name on the system in the network where the repository is located.

Password

Password on the system in the network where the repository is located.

Buttons

Change Configuration

Starts the **Configuration** wizard.

5.4.2 Mail Settings Tab

 The **Mail Settings** tab is disabled (grayed out) if you have set a remote repository for updating your software.

You only need this tab if you want to update your local repository via the **Download Service** (Download Manager).

The **Mail Settings** tab displays the mail settings for the persons who are to be informed about new updates downloaded via the Download Service.

To modify the properties click **Change Configuration**.

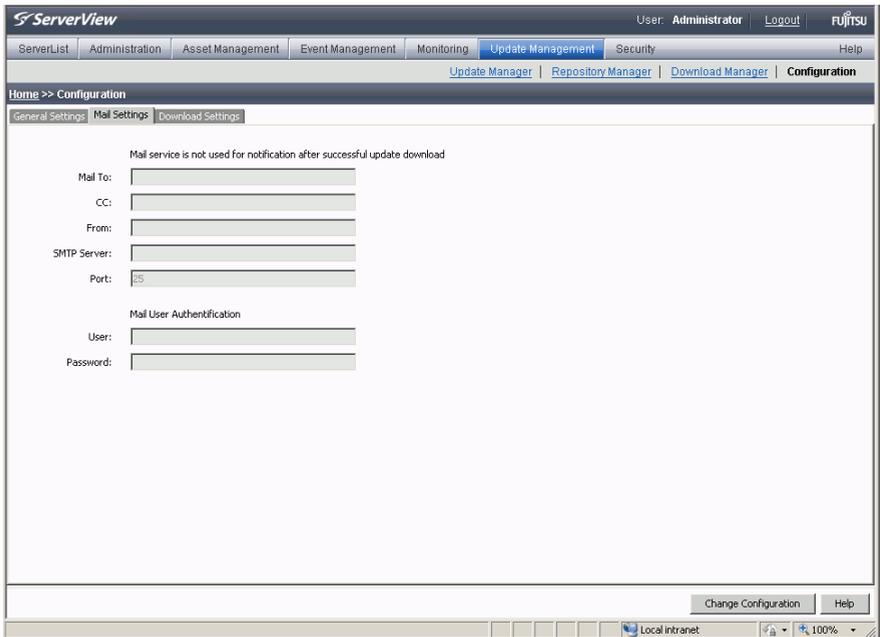


Figure 54: Mail Settings tab

Mail To

Recipient address(es) of the e-mail

If more than one address is entered, they are separated by commas.

CC

Additional recipient addresses

If more than one address is entered, they are separated by commas.

From

E-mail address of the sender

SMTP Server

IP address of the SMTP server

Port

Port number of the SMTP server

User

User ID for logging on to the mail server

Password

Password for logging on to the mail server

Buttons**Change Configuration**

Starts the **Configuration** wizard.

5.4.3 Download Settings Tab

 The **Download Settings** tab is disabled (grayed out) if you have set a remote repository for updating your software.

You only need this tab if you want to update your local repository via the **Download Service** (Download Manager).

The **Download Settings** tab shows the details of the connection to the web server of Fujitsu Technology Solutions via which the **Download Service** is to download new updates.

To modify the settings displayed click **Change Configuration**.

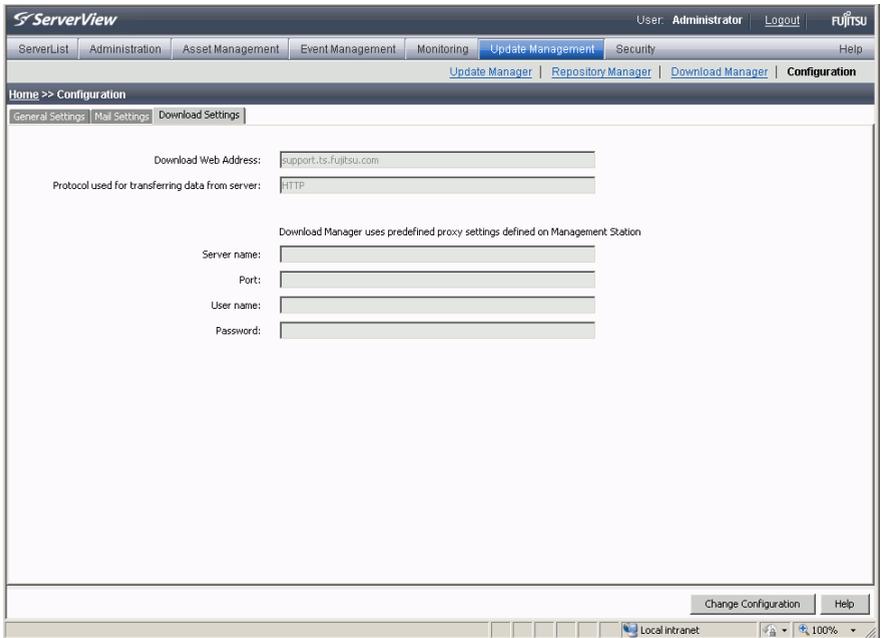


Figure 55: **Download Settings** tab

Download Web Address

URL of the web server use by the Download Service. Default is the web server of Fujitsu Technology Solutions.

Protocol used for transferring data from web server

Type of the protocol used

The comment displays the current kind of connection.

One of the following messages is shown:

- **Download Manager uses predefined proxy settings defined on Management Station**
- **Download Manager uses proxy server defined in Configuration Wizard**
- **No proxy server is currently set for Download Manager**

Example for "How to find predefined Proxy Settings on a Windows Management Station":

Click *Start - Control Panel - Internet Options - Connections - LAN Settings*.

Server name

Name or IP address of the proxy server

Port

Number of the port used by the proxy server

User name

User name (ID) for logging on to the proxy server

Password

Password for logging on to the proxy server

Buttons

Change Configuration

Starts the **Configuration** wizard.

5.4.4 Configuration Wizard

You use this wizard to configure the global parameters for Update Management. The wizard has several steps. All required steps are displayed in the tree structure on the left.

By choosing **Next** or **Previous**, you can navigate the wizard from step to step. If a step contains mandatory parameters, **Next** is deactivated until you have entered the required values.

This wizard opens automatically the first time you access Update Management.

You can open this wizard again at any time to change the settings by choosing **Change Configuration**.

5.4.4.1 Start step (Configuration Wizard)

Start is the first step in the wizard.

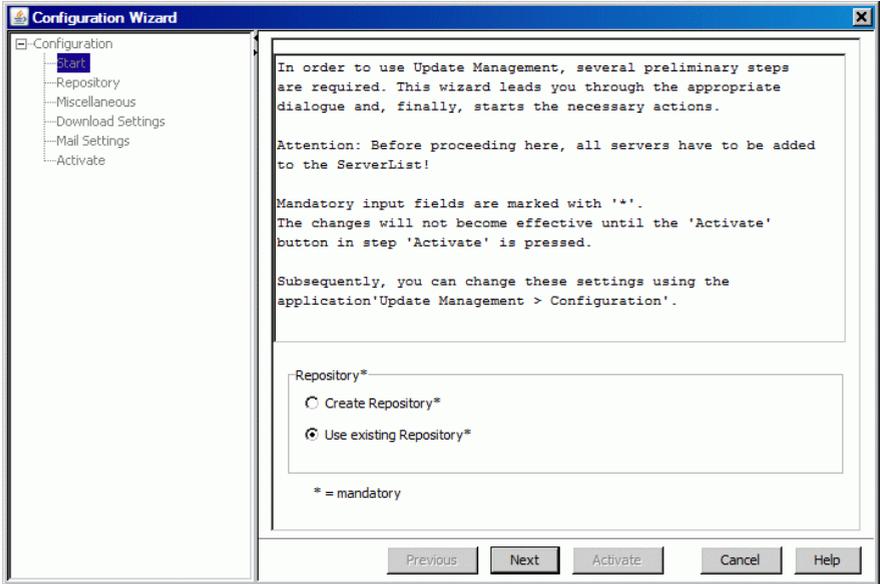


Figure 56: **Start** step

Repository

Specifies whether

- a new repository is to be created.
- an existing repository is to be used.

5.4.4.2 Repository step (Configuration Wizard)

The selection you made at the **Start** step (**use an existing** or **create a new repository**) determines which fields are displayed in this step.

Use existing Repository

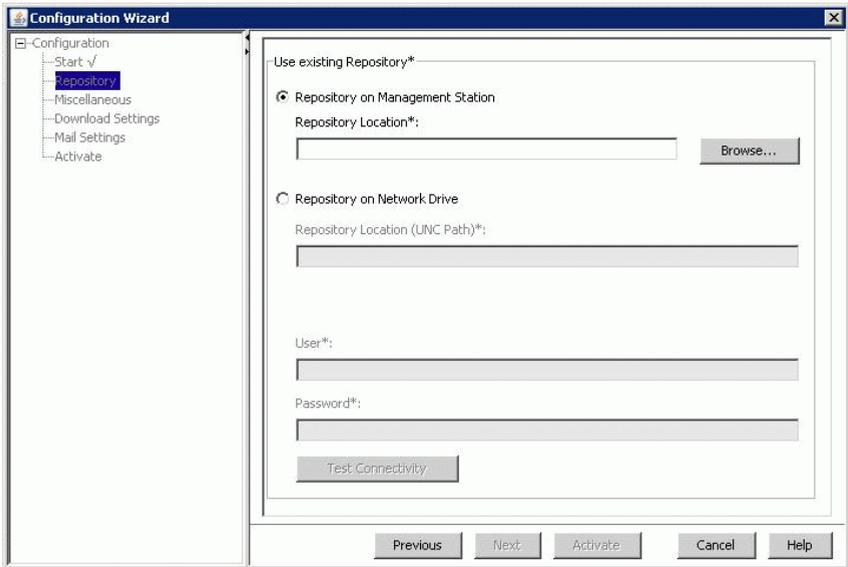


Figure 57: Use Existing Repository step

Repository on Management Station

The repository is located on the local management station.

Repository Location

Absolute path of the repository on the management station.

Format for Windows: <drive letter>:\<directory name>\...

Format for Linux: /<directory name>/...

The **globalflash** directory, in which the repository is located, is not entered with the path.

-  The **Browse** button is only enabled, if you started the Server-View Operations Manager on the management station directly.

Repository on Network Drive

The repository is located on an other system in the network.

Repository Location (UNC Path)

Absolute path of the repository on the network drive

For Windows:

UNC notation should be used

\\<server name>\<share name>\<path>

User

User name on the system in the network where the repository is located.

Password

Password on the system in the network where the repository is located.

-  If the user and/or password for the connection to the **Repository on the Network Drive** has been changed, proceed as follows:

1. Reboot the management station.
2. In the ServerView Operations Manager open the **Configuration** applet .
3. Click **Change Configuration**.
4. In the **Start** step, select **Use existing Repository**.
5. Enable option **Repository on Network Drive**.
6. Enter **User** and **Password**.

Important:

Do not open any other applets before finishing these steps.

Test Connectivity

Tests the connection to the system in the network

For Linux:

After each reboot the remote drive must be mounted manually by an administrator beforehand.

//<absolute pathname>



The mount point itself and the directories above must have *read / execute* access for user **svuser**.

Create Repository

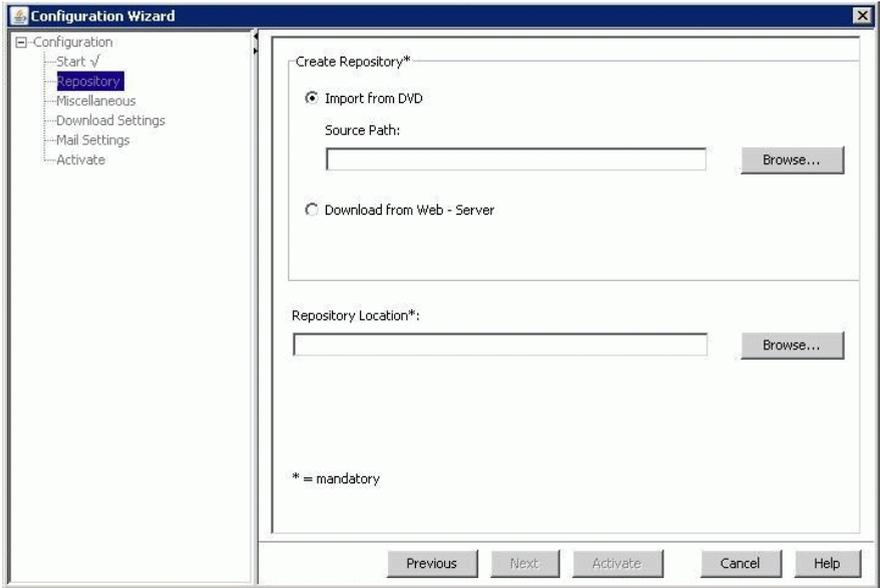


Figure 58: **Create Repository** step

-  The **Browse** button is only enabled, if you started the Operations Manager on the management station directly.

Import from DVD

Imports the repository from the ServerView Update DVD.

Source Path

Absolute path of the repository to be imported on the DVD.

-  The **Browse** button is only enabled, if you started the ServerView Operations Manager on the management station directly.

Examples

For Windows: E:\Firmware

For Linux: /media/Firmware

Download from Web Server

Loads the repository from the web server of Fujitsu Technology Solutions.

Repository Location

Absolute path of the repository on the management station.

If the specified directory does not exist yet, it is created.

If the specified directory already exists, a warning will be issued. If you proceed, all files and directories in the specified directory will first be deleted. Then the repository is created in the specified directory.



Linux:

The user **svuser** must have authorization to create the repository directory and further subdirectories.



The **Browse** button is only enabled, if you started the ServerView Operations Manager on the management station directly.

5.4.4.3 Miscellaneous step (Configuration Wizard)

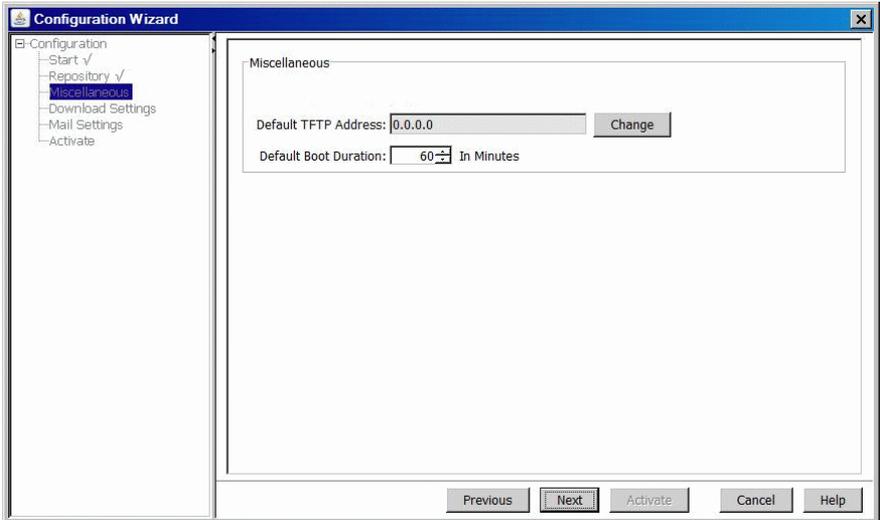


Figure 59: **Miscellaneous** step

Default TFTP Address

IP address of a TFTP server (for components that are updated via TFTP server, for example, management blades or connection blades).

Change

Opens the **Change IP Address** dialog box, where you can enter a new TFTP address and test the establishment of a connection to the new TFTP address.

Default Boot Duration

The length of time that Update Manager waits for an updated server to reboot. The time you enter here is added to the length of time the server is unavailable during the update.

5.4.4.4 Download Settings step (Configuration Wizard)

In this step you define the proxy settings for the **Download Service**.

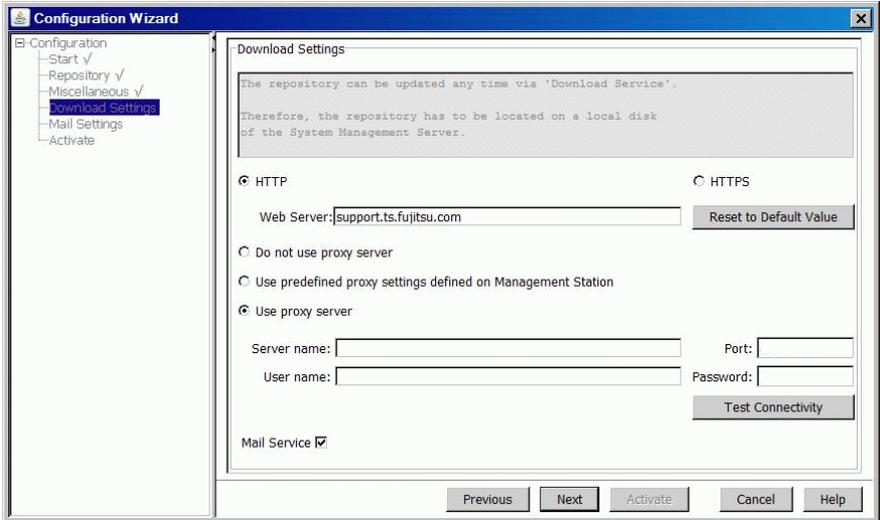


Figure 60: **Download Settings** step

HTTP / HTTPS

Select the type of the protocol you want to use for transferring data from the web server.

Web Server

Enter the URL of the web server for the Download Service. Default is the web server of Fujitsu Technology Solutions.

Reset to Default Value

Resets the address of the web server to the default value of Fujitsu Technology Solutions. This is useful in the case that the user has changed the value to test an own web server.

Do not use proxy server

Enable this option if you want to use the **Download Manager** without a proxy server. The **Download Manager** will then ignore all proxy settings.

Use predefined proxy settings defined on Management Station

Enable this option if you want to use the proxy settings defined on the Management Station.

This option is only available under Windows.

Example for "How to find predefined Proxy Settings on a Windows Management Station":

Click **Start - Control Panel - Internet Options - Connections - LAN Settings**.

Use proxy server

Enable this option if you want to use a proxy server only defined for the **Download Manager**.

For details of the **Port** of the proxy server, contact your network administrator.

Server name

Name or IP address of the proxy server you want to use

Port

Number of the port used by the proxy server

User name

User name (ID) for logging on to the (pre)defined proxy server

Password

Password for logging on to the (pre)defined proxy server

Test Connectivity

Tests the connection to the web server

Mail Service

If you enable this option, the next step will be **Mail Settings**.

The persons you define in step **Mail Settings** are to be informed by email about new updates that have been downloaded by the **Download Service**.

If this option is disabled, the next step will be **Activate**.

5.4.4.5 Mail Settings step (Configuration Wizard)

This step is only displayed if you selected the **Mail Service** option in the previous step. Here you define who is to be informed by email about new updates that have been downloaded by the Download Service.

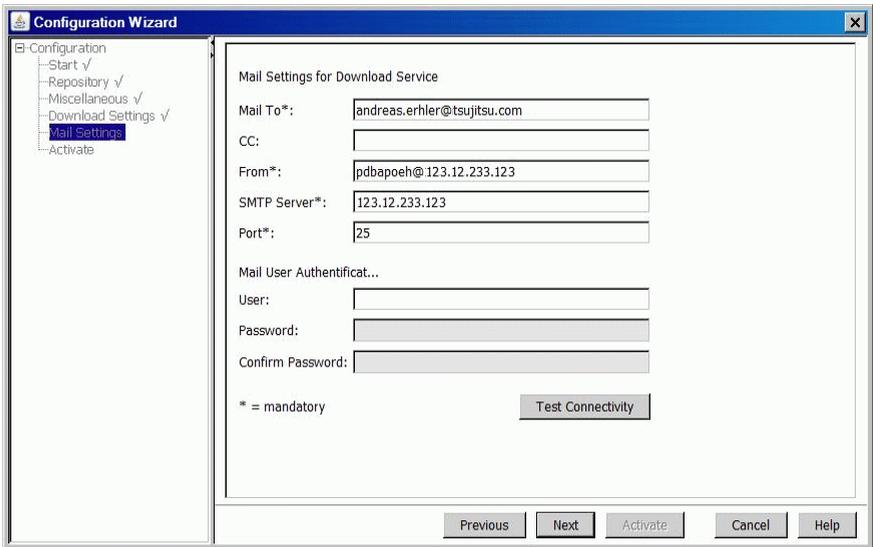


Figure 61: Mail Settings step

Mail To

Recipient address(es) of the e-mail

If more than one address is entered, they are separated by commas.

CC

Additional recipient addresses

If more than one address is entered, they are separated by commas.

From

E-mail address of the sender

SMTP Server

IP address of the SMTP server

Port

Port number of the SMTP server

User

User ID for logging on to the mail server

Password

Password for logging on to the mail server

Confirm Password

Input the same password for confirmation

Buttons

Test Connectivity

Tests the connection to the SMTP server

5.4.4.6 Activate step (Configuration Wizard)

Activate is the last step in the wizard.

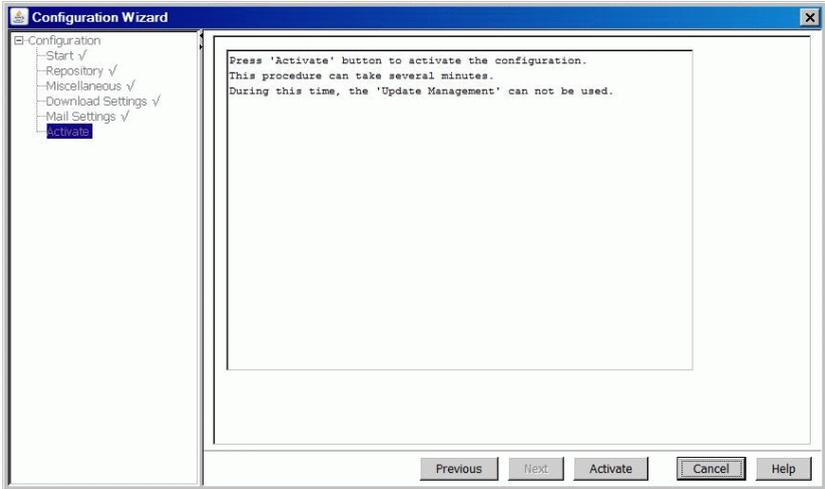
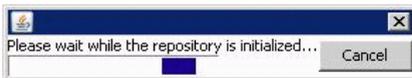


Figure 62: **Activate** step

Activate

Activates parameter changes in the database. If you have changed the repository, the inventory data of all servers is recreated. The new repository data is read into the database. If you selected to use a remote repository, this can take a long time (depending on your network).

While the new repository data is read into the database, a progress bar is displayed.



If you abort the process by clicking **Cancel**, the status of the repository will be set to **incomplete**. The current configuration will be deleted and a new configuration will be necessary.

To use the old repository again, start the configuration wizard.

In the **Start** step, select **use existing repository**

In the **Repository** step, specify the old repository.

5.5 Filter dialog box

You can specify which table entries are displayed in a table using the tabs in the **Filtering for Column <column name>** dialog box. Tables display all rows by default. You can filter a table based on a column and:

- a specific value (**Standard** tab)
- a value range, which may comprise several values (**Customize** tab)

To open the dialog box, click the filter icon  in a table header. A filter icon is displayed for each column that can be filtered.

5.5.1 Standard (Filter dialog box)

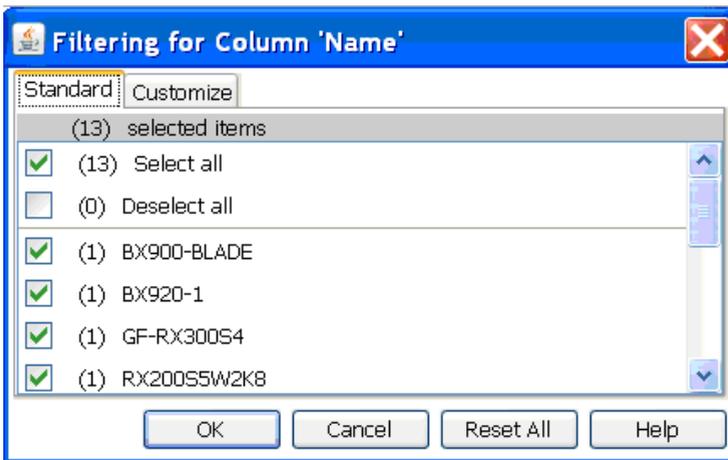


Figure 63: Standard tab in the **Filter** dialog box

The **Standard** tab lists all values and the frequency with which they occur in the selected column:

- | | |
|----------------------|--|
| Select all | selects all table rows for display |
| Deselect all | deselects all table rows |
| <value> | shows all table rows with the selected value |

5.5.2 Character strings (Filter dialog box)

You can enter a character string on the **Customize** tab. A corresponding table row is displayed for each value in the selected column that coincides with this character string.

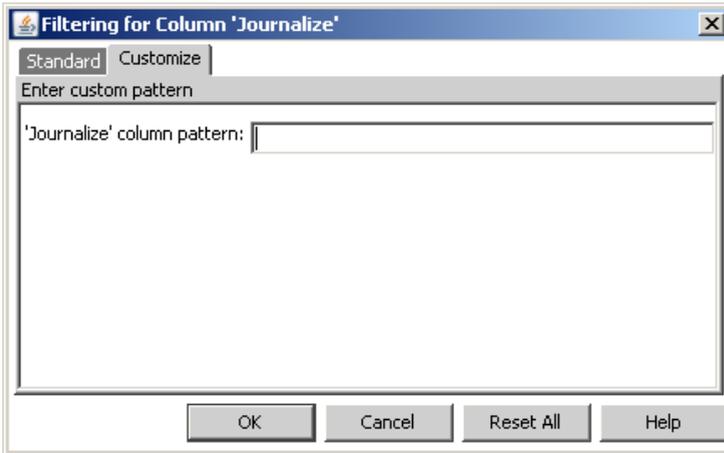


Figure 64: Tab for character strings in the **Filter** dialog box

<column> column pattern

The character string serves as a filter criterion. You can use any alphanumeric characters in the character string, in addition to the following placeholders:

- ? represents a single character
- * represents any number of characters
- \ a wildcard character that allows you to filter using the characters * and ?.

Example:

* shows all rows that contain a single asterisk in the filtered column.

You can enter any number of characters as a filter criterion. Filtering by regular expression is not permitted.

5.5.3 Integer values (Filter dialog box)

You can enter a specific number range on the **Customize** tab. A corresponding table row is displayed for each value in the selected columns that coincides with this number range.

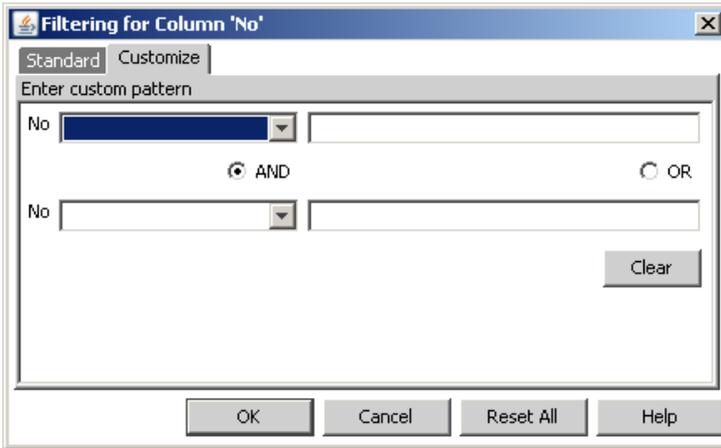


Figure 65: Tab for integer values in the **Filter** dialog box

<column>

List with logical operators and an input field for the first integer in the range, which you can use to formulate a condition.

logical AND or OR operator

AND both conditions must be fulfilled

OR one of the conditions must be fulfilled

<column>

List with logical operators and an input field for the last integer in the range, which you can use to formulate a condition.

6 Managing Updates

The applications in Update Management enable effective management of updates for your servers and their components.

6.1 Update Manager

Update Manager allows you to install and update firmware and software components within a domain on PRIMERGY servers using a central management station.

Initial installation is possible for drivers and add-on products.

The following can be updated:

- Firmware
- BIOS
- Drivers
- ServerView agents
- ServerView update agents
- Add-on products

6.1.1 Opening Update Manager

There are two ways to open the Update Manager in the ServerView Operations Manager:

- On the start page of the ServerView Operations Manager, choose **Update Management/Update Manager**.
- In the ServerView menu bar, choose **Update Management/Update Manager**.

The Update Manager opens with the main window.

6.1.2 Closing Update Manager

You can close the Update Manager by closing the main window.

- To close the Update Manager main window, click the Close icon in the browser window.

6.1.3 Logging on to the Server

You must log on to servers that have **restricted** or **not certified** access status in order to obtain access to these.

1. On the **Server Details** tab, select the server that you want to log on to, see "[Server Details tab](#)" on page 61.
2. Click **Logon**.
The **Logon** dialog box opens.
3. You can further restrict your selection in the table on the left of this dialog box.



If you have also selected servers that have an access status other than **restricted** or **not certified**, these also appear in the table. However, logging on to these servers has no effect.

4. Enter your user ID and password under **User Authentication**.
5. Click **check and set password**.

Result:

If a connection to the server can be established, this is indicated by **Manageable = yes**. In this case, the logon data is checked and access privileges are set for the selected servers. The access status changes from **restricted** to **granted** and the password is then valid for the current session.

If a connection to the server cannot be established, this is indicated by **Manageable = no**. In this case, the logon data is saved under the assumption that it is correct. The access status changes from **restricted** to **trusted**. As soon as the server can be reached again, the status changes from **trusted** to **granted** and the password is valid for the current session.

6.1.4 Resetting the update agent of a server

If the update agent of a server is terminated with an undefined status, it may be necessary to reset the agent using the **Cleanup** function.

The update agent must be reset, for example, if a job ends with the error **Pending Jobs**.

After a **Cleanup** without errors, the update agent is fully functional again and can execute new update jobs.

1. On the **Server Details** tab, select the relevant server, see "[Server Details tab](#)" on page 61.
2. Click **Cleanup**. The Cleanup wizard opens with the first step **Logon**. You must log on to servers that have **restricted** or **not certified** access status in order to obtain access to these.
3. You can further restrict your selection from the tab in the table on the left of this dialog box.



If you have also selected servers that have an access status other than **restricted** or **not certified**, these also appear in the table. However, logging on to these servers has no effect.

4. Enter your user ID and password under **User Authentication**.
5. Click **check and set password**.

Result:

If a connection to the server can be established, this is indicated by **Manageable = yes**. In this case, the logon data is checked and access privileges are set for the selected servers. The access status changes from **restricted** (or **not certified**) to **granted** and the password is then valid for the current session.

If a connection to the server cannot be established, this is indicated by **Manageable = no**. In this case, the logon data is saved under the assumption that it is correct. The access status changes from **restricted** (or **not certified**) to **trusted**. As soon as the server can be reached again, the status changes from **trusted** to **granted** and the password is valid for the current session.

6. Click **Next**. The **Enter TFTP** step opens.
This step is only displayed if the cleanup runs via TFTP .
7. Select a management blade or connection blade in the table.
8. Check the IP address of the TFTP server in the **TFTP Address** field.

The value that you configured using the Configuration Wizard is displayed as default.

If you want to change the TFTP address, click **Change TFTP Address**.

The **Change TFTP Address** dialog box opens.

Enter the IP address of the TFTP server you want to use.

Click **OK** to confirm your changes.

9. If the table contains more than one management blade or connection blade, repeat steps 7-8 for each individual management blade or connection blade.
10. Click **Next**. The **Schedule Job** step opens.
11. Specify the time at which the cleanup job is to be executed in the **Exec Time** field.
12. Click **Finish** to complete the cleanup job.



If you clean up the update agent, all updates that have already been transferred to the PRIMERGY server are deleted.

6.1.5 Displaying the update log for a server

1. On the **Server Details** tab, select the relevant server, see "[Server Details tab](#)" on page 61.
2. Click **Show Details**. The **Show Server Details** dialog box is displayed.
3. Click **History**. A web page opens with information about all jobs that have been run on the server.

6.1.6 Displaying detailed information about an update

1. On the **Update Details** tab, choose the update for which you require detailed information, see "[Update Details tab](#)" on page 67.
2. Click **Show Details**. The **Update Details** dialog box opens with additional information about the update you selected, see "[Update Details dialog box](#)" on page 100.

6.1.7 Managing jobs

The following procedures describe how to manage your jobs.

6.1.7.1 Creating a job

1. Go to the **Update Details** tab, see "[Update Details tab](#)" on page 67.
2. In the tree structure, either on the **Servers** tab or the **Updates** tab, choose the group for which you want to create a new job.
3. On the left of the **Update Details** tab, choose either the component group or server for which you want to create a new job.
4. On the right of the **Update Details** tab, choose the server specific update for which you want to create a new job.
5. Click **Create Job**. The **Create Job** wizard opens with the first step **Logon**. You must log on to servers that have **restricted** or **not certified** access status in order to obtain access to these.

6. You can further restrict your selection from the tab in the table on the left of this dialog box.
 -  If you have also selected servers that have an access status other than **restricted**, these also appear in the table. However, logging on to these servers has no effect.
7. Enter your user ID and password under **User Authentication**.
8. Click **check and set password**.
 - If a connection to the server can be established, this is indicated by **Manageable = yes**. In this case, the logon data is checked and access privileges are set for the selected servers. The access status changes from **restricted** (or **not certified**) to **granted**.
 - If a connection to the server cannot be established, this is indicated by **Manageable = no**. In this case, the logon data is saved under the assumption that it is correct. The access status changes from **restricted** (or **not certified**) to **trusted**.
9. Click **Next**. The **Change Version** step opens.
10. If required, select a different version of the update.
Click **Change Version**.
The **Update Details** dialog box opens.
Select a different version from the **Available Versions** list.
Click **Close**.
11. Click **Next**. The **Enter Job Name** step opens.
12. Assign a name to the new job in the **Job Name** field.
13. Assign a description to the new job in the **Description** field (optional).
14. Click **Next**. The **Enter TFTP** step opens. This step is only displayed for components that are updated via TFTP server.
15. Select a management blade or connection blade in the table.

16. Check the IP address of the TFTP server in the **TFTP Address** field.
The value that you configured using the Configuration Wizard is displayed as the default.
If you want to change the TFTP address, click **Change TFTP Address**.
The **Change TFTP Address** dialog box opens.
Enter the IP address of the TFTP server you want to use.
Click **OK** to confirm your changes.
17. Only MMBS2:
Click **Change Flash Address**.
The **Change Flash Address** dialog box opens.
Enter the IP address used for flashing the management blade.
Click **OK** to confirm your changes.
For all other components that are updated via TFTP server, do not enter anything in this field.
18. If the table contains more than one management blade or connection blade, repeat steps 15-17 for each individual management blade or connection blade.
19. Click **Next**. The **Schedule Job** step opens.
20. Specify the time at which the job is to be transferred to the servers in the **Transfer Time** field.
21. Specify the time at which the update phase is to be started on the servers in the **Flash Time** field.
23. Only for updates that require a reboot of the system (indicated by **Reboot = yes**):
Enter the time at which the servers are to be rebooted in the **Boot Time** field.
24. Click **Finish** to create the new job.

6.1.7.2 Copying a job

You use this procedure to copy a job to selected servers.

1. On the **Job Details** tab, select the job that you want to copy, see "[Job Details tab](#)" on page 71.
2. Select **Copy Job**. The **Copy Job** wizard opens with the first step **Choose Server**.
3. Select a server to which the job is to be copied from the **Possible Server** list.
4. Click **>**. The selected server is copied to the **Destination Server** list.
5. Repeat steps 3 and 4 for each server to which you want to copy the job.
6. Click **Next**. The **LogOn** step opens.
7. Log on to all servers that require user authentication (**Agent Access = restricted or not certified**).
8. Click **Next**. The **Enter Job Name** step opens.
9. Assign a name to the job in the **Job Name** field.
10. Assign a description to the job in the **Description** field if required.
11. Click **Next**. The last step **Schedule Job** opens.
12. Specify the time at which the job is to be transferred to the servers in the **Transfer Time** field.
13. Specify the time at which the update phase is to be started on the servers in the **Flash Time** field.
14. Specify the time at which the server is to be rebooted in the **Boot Time** field (only if **Reboot = yes**).
15. Click **Finish** to start the copy process.

6.1.7.3 Releasing a job

If you establish that jobs can be processed without errors (for example, after a test run on a test computer), you can indicate that these jobs are **released**. This is for information purposes only and indicates that the jobs can be executed without errors on the individual PRIMERGY servers.

1. On the **Job Details** tab, select the jobs that you want to release, see ["Job Details tab" on page 71](#).
2. Click **Release**. The **Confirmation** dialog box opens.
3. Click **Yes** to confirm the release of the job.

6.1.7.4 Deleting a job

1. On the **Job Details** tab, select the jobs that you want to delete, see ["Job Details tab" on page 71](#).
2. Click **Delete**.
The **Confirmation** dialog box opens, where you must confirm that the job is to be deleted.
3. Click **Yes** to confirm the deletion of the job.

6.1.7.5 Displaying detailed information about a job

1. On the **Job Details** tab, select the job for which you require detailed information, see ["Job Details tab" on page 71](#).
2. Click **Show Details**. The **Job Details** dialog box opens.
Diagnostic data is also displayed here for jobs that have failed.

6.2 Repository Manager

The Repository Manager has the following characteristics:

- It recognizes the relevant update information in the repository
- It can change properties of the update information (for example, severity)
- It can release updates
- It can import the `Firmware` file directory from the ServerView Update DVD. An import of components with the same version from the DVD overwrites the contents of the repository.

6.2.1 Opening Repository Manager

There are two ways to open the Repository Manager in the ServerView Operations Manager:

- On the start page of the ServerView Operations Manager, choose **Update Management/Repository Manager**.
- In the ServerView menu bar, choose **Update Management/Repository Manager**.

The Repository Manager opens with the main window.

6.2.2 Closing Repository Manager

You close the Repository Manager by closing the main window.

- To close the Repository Manager main window, click the Close icon in the browser window.

6.2.3 Editing updates

You can edit the individual updates.

1. Select a group in the tree structure.
2. Go to the **Updates** tab in the Repository Manager, see ["Updates tab" on page 128](#).
3. Select the update you want to edit.
4. Click **Edit**.
The **Edit Update's Properties** dialog box opens.
5. Change the required properties of the update.
6. Click **OK** to confirm your changes. The dialog box closes and the changed properties are applied to the update.

6.2.4 Releasing updates

You can release updates once a test update has been completed with satisfactory results for one or more components.



You cannot undo this command. If you want to undo the release, you must edit each update.

1. Select the relevant group in the tree structure.
2. Go to the **Updates** tab in the Repository Manager, see ["Updates tab" on page 128](#).
3. Select the update(s) you want to release.
4. Click **Release**. Repository Manager opens a dialog box where you must confirm that you want the selected updates to be released.
5. Click **Yes** to confirm the release. The dialog box closes and the value **yes** appears in the **Released** column for all selected updates.

6.2.5 Managing user-defined groups (Collections)

You can use the following procedures to manage user-defined groups.

6.2.5.1 Creating a user-defined group

To create a user-defined group, follow the steps below:

1. Go to the **Collections** tab in the Repository Manager, see "[Collections tab](#)" on page 132.
2. Click **Create**.
The **Create Collection** dialog box opens.
3. Assign a name to the new group under **Name**.
4. Assign a comment describing the group under **Description**.
5. Click >> to copy all component groups from the **Source** list to the **Destination** list.
6. If you do not want to copy all component groups, select the component groups that you want to add to the new group under **Source** and click >.
7. Click **OK** to create your customized group. The dialog box closes and the new group is created. The selected component groups are assigned to the new group in the ServerView database.

6.2.5.2 Editing a user-defined group

To edit a user-defined group, follow the steps below:

1. Go to the **Collections** tab in the Repository Manager, see "[Collections tab](#)" on page 132.
2. Select the group you want to edit.
3. Click **Edit**.
The **Edit Collection** dialog box opens.
4. If necessary, change the comment describing the group under **Description**.

5. Edit the group.
6. Click **OK** to confirm your changes. The dialog box closes and the changes are assigned to the selected component groups and components in the ServerView database.

6.2.5.3 Releasing updates in a user-defined group

You can release updates once a test update has been completed with satisfactory results for the components in your user-defined group.



You cannot undo this command. If you want to undo the release, you must edit each update.

1. In the tree structure, select one or more groups under **User Collections** or the group itself.
2. Go to the **Collections** tab in the Repository Manager, see "[Collections tab](#)" on page 132.
3. Select one or more groups whose updates you want to release.
4. Click **Release**. Repository Manager opens a dialog box where you must click **Yes** to confirm that you want the updates to be released.
5. Click **Yes** to confirm the release.
The dialog box closes and the value **yes** appears in the **Released** column for all updates for the components in the group.

6.2.5.4 Deleting a user-defined group

To delete a user-defined group, follow the steps below:

1. In the tree structure, select one or more groups under **User Collections** or the group itself.
2. Go to the **Collections** tab in the Repository Manager, see "[Collections tab](#)" on page 132.
3. Select one or more groups that you want to delete.

4. Click **Delete**.
The Repository Manager opens a dialog box where you must confirm deletion with **Yes**.
5. To confirm deletion, click **Yes**.
The dialog box closes and the group is deleted. All assignments entered by Repository Manager in the ServerView database are also deleted.

6.2.6 Re-Initializing the Repository

You can update your repository on the management station by importing new components from the ServerView Update DVD or another existing repository.



If you want to replace your complete repository, do this using the Configuration Wizard.

1. Go to the **Updates** tab in the Repository Manager, see ["Updates tab" on page 128](#).
2. Click **Import**.
The **Import Repository** dialog box opens.
3. In the **Import Path** field, specify the directory that contains the update components to be imported.
4. Click **Check for Imports**.
After the process has finished, all components found in the specified directory (including all subdirectories) are shown in the **Source** list on the left. If you only want newer updates to be displayed, enable the **Filter only newer updates** option.
5. Copy all desired components from the **Source** list on the left to the **Destination** list on the right.

6. Click **OK** to confirm the import.

All selected update components will be added to the existing repository on the management station if they did not exist before. If an older version of a component exists the newer version is additionally added to the local repository.

When the process is finished the result of importing components into the current repository is shown.

7. After the import, start the Download Service to download the latest updates from the download site of Fujitsu Technology Solutions.

6.3 Download Manager

The Download Manager provides you with a convenient way to get the latest versions of firmware, BIOS, drivers, and ServerView agents for your server. The Download Manager relieves you of the task of performing time-consuming searches for suitable update information.

Information and update files are provided on the web server of Fujitsu Technology Solutions for your server update. The Download Manager first loads the information files to a download directory. The data in these information files provides the Download Manager and the other components of the ServerView Suite with an overview of the available updates.

In the next step, the required update files are retrieved from the web server. These contain update information for firmware, BIOS, drivers, or ServerView agents, which can then be distributed to the relevant servers by the Update Manager. This step-by-step procedure minimizes the load times for the download.

On the user interface, you define download tasks that search for available updates for selected servers in the time intervals you have chosen. The Download Service of the Download Manager then automatically loads the required files from the web server to a directory on your management server.

6.3.1 Adjusting the Download Service

You can limit the number of download tasks (concurrent jobs) that can be executed in parallel as follows:

1. Make sure that no download tasks are running . Check the status icons on the **Schedules Tasks** tab.
2. Stop the **Download Service**.
3. Edit the *DownloadServer.ini* file in the `<scripts>/ServerView/Download` directory.
This directory is located on the management station.

Change the value of the **ConcurrentJobsAllowed** parameter.

The default value is 30.

The maximum value is 99.

The value 0 is not advisable, as it allows an infinite number of parallel download tasks.

When using a small database system with reduced concurrent access, the value should be set to 5.

4. Start the **Download Service**.



If you upgrade the Download Manager software, the value of the **ConcurrentJobsAllowed** parameter will be reset to the default value.

6.3.2 General Information on Download Manager

Use Download Manager to define download tasks for one or more servers and specify when, and how often the download tasks are to be executed. You can also display information on download tasks already executed.

It is recommended that you execute at least one download task a month. This ensures that the latest Update Manager information files and Version Manager database are loaded every month.

The Download Service of the Download Manager executes the defined download tasks automatically as follows:

1. Search on the web server of Fujitsu Technology Solutions for new information files.
2. Load all new information files to the default download directory.
3. The Download Manager uses the information files loaded to check whether updates need to be performed for each server for which the download task is activated.
4. Load all required update files from the web server to the repository directory.
5. Show the results for each defined server via the graphical user interface.

6.3.3 Opening Download Manager

There are two ways to open the Download Manager in the ServerView Operations Manager:

- On the start page of **ServerView Suite**, choose **Download Manager** under **Update Management**.
- In the ServerView menu bar, choose **Update Management/Download Manager**.

The main window of Download Manager is displayed.

6.3.4 Closing Download Manager

Use the Close icon in the browser window to close the main window of the Download Manager.

6.3.5 Creating a new download task

In a first step, you create a download task to suit your requirements. To this download task, you then assign the servers for which searches for updates are to be carried out at the specified time.

1. Go to the **Task Management** tab.
2. Click **Add...**
3. Specify when the download task is to be executed under **Select Date and Time to Start**.
4. Specify how often the download task is to be executed under **Frequency**.
5. Specify how many of the log files are to be saved under **Journalize Log Data**.

The **Summary** output field shows a summary of the values you specified.

6. Click **Create** to save the new download task. The dialog box closes and the download task is created.
Click **Close** to cancel processing and discard all entries.

6.3.6 Assigning servers to a download task

In order to use a download task, you assign the required servers to it.

1. Go to the **Task Management** tab.
2. In the table, select the download task you want to use for your server(s).
3. Click **Activate ...** .
The dialog box for assigning servers is displayed.
4. In the list on the left, select the server(s) you want to assign to the download task.
5. Click **>**. The servers selected in the list on the left are shown in the list on the right.
6. Repeat steps 4 and 5 until all the required servers are shown in the list on the right.
7. Click **Assign** to save the assignment of servers to the download task. Click **Close** to cancel processing and discard all changes.

6.3.7 Editing a download task

1. Go to the **Task Management** tab.
2. Select the download task you want to edit in the table.
3. Click **Edit ...** .
 - You can change the time at which the download task is to be executed under **Select Date and Time to Start**.
 - You can change the number of required log files under **Journalize Log Data**.
 - As long as no server is assigned to this download task, you can change how often the download task is to be executed under **Frequency**.
4. Click **Create** to save the download task.
Click **Close** to cancel processing and discard all changes.

6.3.8 Deleting a download task

If you no longer need the download task, you can delete it. However, you can only delete a download task if NO servers are assigned to it.

1. Go to the **Task Management** tab.
2. Select the download task you want to delete in the table.
3. If servers are still assigned to the download task, remove this assignment by clicking **Deactivate**.
All the services assigned to the download task are stopped.
4. Then click **Delete**.

The download task selected in the table is deleted.

6.3.9 Monitoring download tasks

The **Scheduled Tasks** tab shows an overview of the servers available in a domain.

By selecting the required servers or server groups in the tree structure (left), you can restrict the number of servers shown in the tab.

Start service

- To search for updates for a server immediately, select the server in the table and click **Once Immediately**.

Stop service

- To stop the search for updates for a server, select the server in the table and click **Deactivate**. The server assignment to a download task is removed.

6.3.10 Managing log files

The **Log Files** tab shows information on download tasks already completed.

Show log file

- If you want to display the entire log file, select the log file in the table and click **View**.

Delete log file

- If you want to delete log files, select them in the table and click **Delete**.
- If you want to delete all log files, click **Delete All**.

6.4 Configuration

In the Configuration window, you can make global settings, optional and mandatory settings, for the Update Management applications. The current settings are displayed on the **General Settings** tab, the **Mail Settings** tab and the **Download Settings** tab.

To change these settings you use the **Configuration** wizard.

6.4.1 Opening the configuration

There are two ways to open the configuration in the ServerView Operations Manager:

- On the start page of the ServerView Operations Manager, choose **Update Management/Configuration**.
- In the ServerView menu bar, choose **Update Management/Configuration**

The configuration opens with the main window.

6.4.2 Closing the configuration

To close the configuration, close the main window.

- To close the configuration main window, click the Close icon in the browser window.

6.4.3 Setting Global Parameters

This procedure allows you to configure the global parameters for Update Management. You use the **Configuration** wizard to do this, which opens automatically the first time you access Update Management.

1. Click **Change Configuration**. The **Configuration** wizard opens with the **Start** dialog box, see "[Start step \(Configuration Wizard\)](#)" on page 183.
2. Under **Repository**, specify whether you want to create a new repository or use an existing repository.
3. Click **Next**. The **Repository** step opens.
Different parameters are displayed according to whether you want to configure a new repository or an existing repository:

-  You can download updates from the download server of Fujitsu Technology Solutions only if the repository is located on the local management station.

Create Repository

4. Specify the location from where the new repository is to be loaded:
 - from the ServerView Update DVD (**Import from DVD**)
 - from the web server (**Download from Web Server**)
5. If you want to import the repository from DVD, select **Import from DVD** and enter the absolute path of the repository on the DVD in the **Source Path** field.

Examples:

For Windows: E:\Firmware

For Linux: /media/Firmware

If you want to load the repository from the web server, select **Download from Web Server**.

6. Enter the absolute path of the repository on the management station in the **Repository Location** field.

If the specified directory does not exist yet, it is created.

Use Existing Repository

4. Enter the location of the repository:
 - on the local management station (**Repository on Management Station**)
 - on a system in the network (**Repository on Network Drive**)
5. Enter the absolute path of the repository in the **Repository Location** field in UNC notation.
6. If the repository is on an other system in the network:
Enter the name and password of the user on the system in the **User** and **Password** fields.
7. Click **Next**. The **Miscellaneous** step opens.
8. Enter the IP address of a TFTP server (for components that are updated via TFTP server, for example, management blades or connection blade) in the **Default TFTP Address** field.
9. Enter the length of time that Update Manager is to wait for an updated server to reboot in the **Default Boot Duration** field. The time you enter here is added to the length of time the server is unavailable during the update.
10. Click **Next**. The **Download Settings** step opens.
11. Select the protocol (HTTP/HTTPS) which the Download Service uses for transferring data from the web server.
12. Enter the URL of the web server in the **Web Server** field. The default URL is entered here. You can use the **Reset to Default Value** button to reset this address to the default setting (for example, if it was changed in a new version of Update Management).
13. Select **Mail Settings** if you want to configure the notification function for new downloads.

14. Click **Next**. If you selected the **Mail Settings** option, the **Mail Settings** step opens; otherwise the **Activate** step opens. In this case, skip the next steps and continue with 24.
15. Enter the recipient address(es) in the **Mail To** field. Multiple addresses must be separated by commas.
16. Enter the additional recipient addresses if necessary in the **CC** field.
17. Enter the mail address of the sender in the **From** field.
18. Enter the IP address of the SMTP server in the **SMTP Server** field.
19. Enter the port number of the SMTP server in the **Port** field.
20. Enter the user ID for logging on to the mail server in the **User** field.
21. Enter the password for logging on to the mail server in the **Password** field.
22. Enter the password a second time in the **Confirm Password** field for security purposes.
23. Click **Next**. The **Activate** dialog box opens.
24. Click **Activate** to activate the new settings in the database. If you have changed the repository default, the inventory data of all servers is re-created.

6.5 Filtering a table

You can use the values or value ranges in a specific column to filter the entries in a table. A filter icon on the right of the table header indicates which columns can be filtered: .

To filter the entries in a table, follow the steps below:

1. Click the filter icon next to the column. The **Filtering for Column** dialog box opens with the **Standard** tab displayed, "[Standard \(Filter dialog box\)](#)" on page 196.
2. If you want to filter the columns based on one value, select the value for which you want to display the corresponding table rows on the **Standard** tab.
3. If you want to filter the columns based on a value range, select the **Customize** tab.
4. On the **Customize** tab, formulate the condition for the values that are to be displayed in this column.
5. Select **OK** to confirm your entries. The dialog box closes and the table entries are displayed according to your selection. The filter icon for the filtered column now appears dark blue.

7 Command-Line Interface

The Command-Line Interface (CLI) in Update Manager provides a scripting environment for updating system components, and is part of the ServerView Operations Manager. The CLI is installed automatically with the Update Manager.

The Command-line interface consists of two parts:

- GFCLI, commands and parameters
- citfs.bat, a batch job to update a new server and add the server to the ServerList

7.1 GFCLI (Command-Line Interface)

The CLI runs without user interaction (quiet mode), creates log files if required and returns various return values. You should test these return values, for example, by checking the `%errorlevel%` system variable (Windows) or `$?` (Linux), or similar script and language elements.

The structure of the individual commands follows the convention:

```
GFCLI <command> <parameter>
```

Each command consists of the constant `GFCLI`, followed by the `<command>` parameter, which defines the command and subsequent command-dependent parameters.

Parameter	Description
-S (StartFlash)	Starts update with version check This option only updates system components for which a newer version is found.
-O (StartFlash)	Starts update without version check
-W (WaitForDone)	Waits for the end of the update jobs
-R (Reboot)	Starts an explicit reboot

Parameter	Description
-C (Cleanup)	Checks whether all update jobs are finished. If so, the update jobs are deleted.
-A (Cancel)	Deletes unfinished update jobs
-H (Help)	Displays the command syntax

If the managed server is protected by access control, you must specify the parameters `-L` and `-P` when you use the CLI. These parameters are only used for the `StartFlash`, `Cleanup` and `Cancel` commands, which change the status.

The CLI writes detailed results to a results file so that you can reproduce an update procedure. If the parameter for the results file is missing when the command is called, the default `logfile.txt` file is used.

In addition, you receive return values to help you program complete update cycles for various results.

7.1.1 Call Parameters

`-s` (StartFlash command)

Starts update with version check

This option only updates system components for which a newer version is found.

`-o` (StartFlash command)

Starts update without version check.



In this case all system components are updated with the latest version of the specified repository, without performing a version check, i.e. even if versions are equal or the installed version is newer (leading to a downgrade). This parameter is therefore risky! It should only be used by persons who have detailed knowledge of the specified repository and of the dependencies between the installed versions (for example, quality test and support employees).

-w (WaitForDone command)

Waits for the end of the update jobs (**Job Status = READY** or **REBOOT**)

-R (Reboot command)

Starts an explicit restart.

-C (Cleanup command)

Checks whether all update jobs are finished (**Job Status = READY**). If so, the update jobs are deleted.

-A (Cancel command)

Deletes unfinished update jobs.

-H

Displays the command syntax.

-D

The `StartFlash` only updates Microsoft-certified system components as standard. This parameter allows you to update non-certified components also.

-N <system>

DNS name or IP address of the managed PRIMERGY server.

-U <path>

Absolute path of the repository.

-F <results file>

File to which the results of the update procedure are written.

Default:logfile.txt

-L <user>

Login user ID for access control.

-P <password>

Login password for access control.

-S

Forced variant of the `Cancel` command.

-M

Specifies that the managed system is a management blade server. The parameters `-T` and `-I` must also be specified to enable communication with the TFTP server (the latter parameter is only required in the `Start-Flash`) command.

-B

Specifies that the managed system is a connection blade server. The parameters `-T` and `-Z` must also be specified. `-T` in order to enable communication with the TFTP server, `-Z` in order to specify the IP address of the management blade server, since inventory data for the connection blade server is collected and provided via the management blade server.

-E

Specifies that the managed system is an iRMC. The parameters `-T` and `-Y` must also be specified, `-T` in order to enable communication with the TFTP server, `-Y` because the data for the `VersionView.sav` file cannot be collected by the program and an external inventory is required.

-Z <IP-addr>

IP address of the management blade server. The IP address is only needed for updating connection blade servers (see option `-B`).

-T <IP-addr>

IP address of the TFTP server for updates via TFTP server (for example, in case of a management blade or connection blade).

-I {<IP-addr> | NO_ADDR}

Update IP address of the management blade for updates via TFTP server. This address must be unique across the network. In the case of newer management blade versions (for example, MMBS3), where it is not necessary to specify an IP address, you must specify `NO-ADDR` here.

-Y <path>

Absolute path of the Inventory file "VersionView.sav" of the managed system.

Mandatory on Linux if the managed system is a management blade or connection blade or if the managed node is an iRMC.

When ServerView Operations Manager is installed the Inventory file can be found in the working directory of the Update Manager following the sub-directory "versionviewsav/<name of MMB>"

-K <community>

SNMP Community String if not **public**.

7.1.2 StartFlash (Command)

Syntax

```
GFCLI {-S|-O} [-D] -N <system> -U <path>
[-F <results file>] [-L <user> [-P <password>]]
[-M -T <IP-addr> -I {<IP-addr>|NO_ADDR} [-K <Community>] | -T <IP-addr> [-K <Community>]]
[-B -Z <IP-addr> -T <IP-addr>]
[-E -T <IPaddr> -Y <inventory>]
```

Description

When the `-S` parameter is used, `StartFlash` reads the inventory of the PRIMERGY server and compares all components with the versions in the specified repository. An update is only initiated for a component if a newer version is found in the repository. A downgrade is not possible with this parameter.

When the `-O` parameter is used, there is no version check, that is, all components are updated with the latest version found in the specified repository.



Parameter `-O` is risky! This parameter should only be used by persons who have detailed knowledge of the repository used and of the dependencies between the installed versions. If, for example, a version of a component in the repository is older than the installed version, the installed version is downgraded in this case.

The command ends as soon as all steps to start the update are completed. The command does not wait for the update procedure to be completed.

The command terminates with a `SequenceError` if a previous update procedure has not yet been completed with the `Cleanup` command or cancelled with the `Cancel` command. In this case, update jobs still exist that have one of the job status specified above.

If a connection cannot be established, the command terminates immediately with a timeout.

Return values

0	Update started without errors.
1	Ok, no obsolete components found.
2	Timeout (no connection to the managed server).
3	SequenceError - command is not permitted during this phase.
4	An error occurred when the update phase was started.
5	GFI error
6	The required parameters for access control do not exist.
7	Access denied
10	Parameter error
11	Memory bottleneck
12	Multiple starting of CLI denied.
13	The results file (option <code>-F</code> or <code>logfile.txt</code>) could not be opened.
14	The <code>GFIlog.txt</code> log file could not be opened.
16	Rebuild of the inventory in progress. Try again later
17	Check command successful, reboot needed by at least one component
18	Managed server type not supported (virtual server / old offline server)

7.1.3 WaitForDone (Command)

Syntax

```
GFCLI -W -N <system> [-F <results file>]  
[-M -T <IP-addr>]  
[-B -Z <IP-addr> -T <IP-addr>]  
[-E -T <IPaddr> -Y <inventory>]
```

Description

`WaitForDone` returns a return value of 0, 4, 8 or 9 if all update jobs have been processed (with or without errors).

In contrast to the `Cleanup` command, the update results are not deleted on the managed server when this command is executed. You can execute `WaitForDone` more than once, and the results file will be updated each time.

If a connection cannot be established, the command returns a timeout after a maximum of 60 seconds. In this case, you can execute the command again to query the status.

Return values

0	Update Ok (job status is <code>READY</code>) All update jobs have been executed without errors.
1	No current job exists (connection established)
2	Timeout (no connection to the managed server)
3	SequenceError - command is not permitted during this phase (a job has <code>PREPARED</code> status) If a GlobalFlash Agent up to V 4.71 is installed on your system, please notice the additional description below.
4	Update with errors (job status is <code>READY</code>) At least one job could not be executed without errors.
5	GFI error
8	Update ok (job status is <code>REBOOT</code>) A job is waiting for the reboot to be executed.
9	Update with errors (job status <code>REBOOT</code>) A job is waiting for the reboot to be executed. However, in addition to the jobs that have been executed successfully without errors and now require a reboot, there are also jobs with errors. The reboot must be executed explicitly by restarting the managed server or using the Reboot CLI command.
10	Parameter error
11	Memory bottleneck
12	Multiple starting of CLI denied
13	The results file (option <code>-F</code> or <code>logfile.txt</code>) could not be opened.
14	The <code>GFLog.txt</code> log file could not be opened.
16	Rebuild of the inventory in progress. Try again later
17	Check command successful, reboot needed by at least one component
18	Managed server type not supported (virtual server / old offline server)

Update job using GlobalFlash Agent up to V 4.71

When you start an update job, the following dialog is displayed on the managed server:



If the dialog is answered with **Cancel**, the command `GFCLI -W(=WaitForDone)` returns the value **3**.

In <result file>, the message **Flash Cancelled by User** is logged.

To cleanup the managed server, the following command has to be used:
`GFCLI -A -S (=Cancel, forced variant)`

7.1.4 Reboot (Command)

Syntax

```
GFCLI -R -N <system> [-F <results file >]
[-L <user> [-P <password>]]
```

Description

`Reboot` initiates the reboot that is required by at least one job (indicated by Job status REBOOT). When the reboot is done, the status of these jobs automatically changes to `READY`.

If a connection cannot be established, the command returns with a timeout after a maximum of 60 seconds.

Return values

0	Immediate reboot initiated
1	No current job exists (connection established)
2	Timeout (no connection to the managed server)
3	SequenceError - command is not permitted during this phase. - Flash boot status is not <code>Online Reboot</code> required or - no job found with the status <code>REBOOT</code>
5	GFI error
6	The required parameters for access control do not exist.
7	Access denied
10	Parameter error
11	Memory bottleneck
12	Multiple starting of CLI denied
13	The results file (option <code>-F</code> or <code>logfile.txt</code>) could not be opened.
14	The <code>GFIlog.txt</code> log file could not be opened.
16	Rebuild of the inventory in progress. Try again later
17	Check command successful, reboot needed by at least one component
18	Managed server type not supported (virtual server / old offline server)

7.1.5 Cleanup (Command)

Syntax

```
GFCLI -C -N <system> [-F <results file>]
[-L <user> [-P <password>]] [-M -T <IP-addr>]
[-B -Z <IP-addr> -T <IP-addr>]
[-E -T <IPaddr> -Y <inventory>]
```

Description

`Cleanup` executes the same steps as `WaitForDone`, but also deletes the update results on the managed server and completes the update procedure. The managed server returns to its original status and the update results are no longer available on the server.

If a connection cannot be established, the command returns with a timeout after a maximum of 60 seconds.

A cleanup is only permitted when the **Job status = Ready**.

A cleanup is not permitted if a job has been transferred and is waiting to be executed (**Job Status = Prepared**) or is currently being executed (**Job Status = Working**)

After this command is executed, the update results are written once only to a results file. You cannot write the last update results to the results file several times, as you can with the `WaitForDone` command.

`Cleanup` must also be executed after a `WaitForDone` (with a subsequent `Reboot` if necessary) to complete the update procedure.

Return values

0	Update Ok (job status is <code>READY</code>) All update jobs have been executed without errors.
1	No current job exists (connection established)
2	Timeout (no connection to the managed server)
3	SequenceError - command is not permitted during this phase (a job has <code>PREPARED</code> status)
4	Update with errors (job status is <code>READY</code>) At least one job could not be executed without errors.
5	GFI error
6	The required parameters for access control do not exist.
7	Access denied
10	Parameter error
11	Memory bottleneck
12	Multiple starting of CLI denied
13	The results file (option <code>-F</code> or <code>logfile.txt</code>) could not be opened.
14	The <code>GFIlog.txt</code> log file could not be opened.
16	Rebuild of the inventory in progress. Try again later
17	Check command successful, reboot needed by at least one component
18	Managed server type not supported (virtual server / old offline server)

7.1.6 Cancel (Command)

Syntax

```
GFCLI -A -N <system> [-F <results file>]
[-L <user> [-P <password>]] [-M -T <IP-addr>] [-S]
[-B -Z <IP-addr> -T <IP-addr>]
[-E -T <IPaddr> -Y <inventory>]
```

Description

`Cancel` cancels the execution of the update jobs that have already been transferred to the managed server, and deletes the `PREPARED` update status. The `PREPARED` status may exist if another user has used the GUI to execute a `Prepare Updates` but has not yet executed an `Execute Updates`; or in the case of an exception, which only arises if an error has occurred.

If a connection cannot be established, the command is terminated with a timeout after a maximum of 60 seconds.

Return values

0	No errors
1	No update status
2	Timeout (no connection to the managed server)
3	SequenceError, command not permitted during this phase - job status <code>PREPARED</code> does not exist or - job status <code>READY/REBOOT</code> exists (only if option <code>-S</code> is not set)
5	GFI error
6	The required parameters for access control do not exist.
7	Access denied
10	Parameter error
11	Memory bottleneck
12	Multiple starting of CLI denied
13	The results file (option <code>-F</code> or <code>logfile.txt</code>) could not be opened.
14	The <code>GFLog.txt</code> log file could not be opened
16	Rebuild of the inventory in progress. Try again later
17	Check command successful, reboot needed by at least one component
18	Managed server type not supported (virtual server / old offline server)

7.1.7 Result Files

All results of an update procedure are written to the specified results file. In this case, the results are added, which means that the files increase in size. You must manage (delete or rename) these results files yourself. The information is contained in the files in the form of event blocks.

 In the case of the `StartFlash`, `Cleanup`, and `Cancel` commands, the results are also written to the `GFLog.txt` log file. You will find this file in the following directory:

Windows:

```
<ServerView Installation Dir>\UpdateManager
```

Linux:

```
<ServerView Installation Dir>/UpdateManager/log
```

Events	Additional sub-events
StartFlash	Count
Ready	Result
Cancel	GFI Error
SequenceError	Timeout
ParamError	
LogonError	
MemoryError	

As well as the return values of the commands, the results files also contain additional information about the updated objects and the results.

Job Statuses

The following statuses are documented for each individual job in the specific results file:

PREPARED	The update job has been transferred to the server.
WORKING	The update job is currently being executed.
REBOOT	The update job has been processed correctly. A reboot is required to become Job Status = READY
READY	The update job has been processed (correctly or with errors).

7.1.7.1 StartFlash (Event)

The StartFlash event normally contains the Count sub-event. This sub-event is always entered as the header. The number specified in this entry indicates the total number of objects selected for the update (for which newer versions are available). Each object has its own StartFlash event with a Result sub-event.

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Event.0=StartFlash	Event: StartFlash
SubEvent.0=Count	Sub-event: Count
CompCount.0=1	Number of components (may be 0)
NoError.0=0	Number of errors
Event.1=StartFlash	Event: StartFlash
SubEvent.1=Result	Sub-event: Result
ObjTypeName.1=MAH3091MC	Object type (component)
ObjName.1=Disk:PCI1.11.1.SCSI0.0.0	Relevant object
OldVersion FW.1=5207	Old FW/BIOS version of the object
NewVersion FW.1=5208	New FW/BIOS version of the object
LastCommand.1=	Last command of the CLI
Error.1=0	Error number in the event of an error
ErrorText.1=ERROR[0] faultless execution	Description of the return value

If an error occurs in the SVUMI.dll when a command is being executed, the entries in the results file depend on the current phase of the StartFlash process. The LastCommand.# field may contain the following entries:

- AddJob
- GetUpdatableComponentsS
- StartUpdate
- WaitForPreparedStatus
- DoFlashBoot

Examples

Error executing AddJob; the list contains error codes for each component.

```
Event.0=StartFlash
SubEvent.0=Count
CompCount.0=1
NoError.0=1
Event.1=StartFlash
SubEvent.1=Result
ObjTypeName.1=MAH3091MC
ObjName.1=Disk:PCI1.11.1.SCSI0.0.0
OldVersion FW.1=5207
NewVersion FW.1=5208
LastCommand.1=AddJob
Error.1=91
ErrorText.1=ERROR[91] couldn't build control file
name
```

Error executing StartUpdate; a component list is not available because the error refers to the StartUpdate GFI request.

```
Event.0=StartFlash
SubEvent.0=Error
CompCount.0=2
LastCommand.0=StartUpdate
Error.0=12
ErrorText.0=ERROR[12] flash file missing
(cannot copy file)
```

If no obsolete components exist (compared with the repository), only the header is shown.

```
Event.0=StartFlash
SubEvent.0=Count
CompCount.0=0 number of obsolete FW versions = 0
NOERROR.0=0
```

7.1.7.2 Ready (Event)

If the CLI detects the `READY` job status after it is started, the return values of all updated components appear as follows:

<code>Event.0=Ready</code>	Event: Ready
<code>SubEvent.0=Count</code>	Sub-event: Count
<code>CompCount.0=2</code>	Number of components (may be 0)
<code>NoError.0=0</code>	Number of errors
<code>Event.1=StartFlash</code>	Event: Ready
<code>SubEvent.1=Result</code>	Sub-event: Result
<code>ObjTypeName.1=DAC1164P</code>	Object type (component)
<code>ObjName.1=SCSIController:PCI6.8.1</code>	Relevant object
<code>Type.1=0</code>	
<code>Status.1=5</code>	Status (5) = READY
<code>Error.1=0</code>	Return value of the job
<code>ErrorText.1=ERROR[0] faultless execution</code>	Description of the return value
<code>Event.2=Ready</code>	Description of the error
<code>SubEvent.2=Result</code>	
<code>ObjTypeName.2=ST336704LC</code>	
<code>ObjName.2=Disk:PCI1.15.1.SCSI0.0.0</code>	
<code>Type.2=0</code>	
<code>Status.2=5</code>	

<code>Error.2=0</code>	
<code>ErrorText.2=ERROR[0] faultless execution</code>	

7.1.7.3 Cancel (Event)

<code>Event.0=Cancel</code>	Event: Cancel
<code>Error.0=0</code>	Error number in the event of an error
<code>ErrorText.0=ERROR[0] faultless execution</code>	Description of the return value

7.1.7.4 SequenceError (Event)

This event has no sub-events. This event indicates that a command cannot be executed because Update Manager has an incorrect status.

Examples

- An update status should not exist when `StartFlash` is called.
- `Cleanup` is only possible if the status is `READY`.
- `Cancel` (without parameter `-S`) is only possible if the status is `PRE-PARED`.

<code>Event.0=SequenceError</code>	A command was called during the wrong phase (unauthorized update status).
------------------------------------	---

7.1.7.5 ParamError (Event)

This event has no sub-events. This event indicates that an unauthorized parameter was used for the specified command. All parameters are checked each time the CLI is called. If unauthorized parameters are used, one line is used to specify where the problem occurred in each case.

<code>Event.0=ParamError</code>	Incorrect number/combination of parameters or an invalid update path.
---------------------------------	---

7.1.7.6 LogonError (Event)

This event has no sub-events. This event indicates that an attempt to log on to the managed server has failed.

<code>Event.0=LogonError</code>	Access denied
---------------------------------	---------------

7.1.7.7 MemoryError (Event)

<code>Event.0=MemoryError</code>	Insufficient memory is available.
----------------------------------	-----------------------------------

7.1.8 Batch Files (Examples)

The following examples are based on Windows. If a Linux shell is used, the Linux variable `$?` must be queried instead of the `%errorlevel%` Windows variables in order to test the return value of the CLI command, for example:

```
GFCLI -S -N <system name> -U <path name>
if [ $? = 0 ]; then ....
```

File 1

```
@echo off
rem *****
rem * cli-exa.bat *****
rem *****
rem * Batch file to flash all components of PRIMERGY servers, supported
rem * by
rem * GlobalFlash to their newest version.
rem * All servers have to be listed in a ServerList. The firmware must be
rem * available in local GlobalFlash FirmwareTree.
rem * Two other batch files are called:
rem * cli-init.bat: Check states and availability of a server and execute
rem * StartFlash for the server
rem * cli-work.bat: Wait for completion of the flash for each server
rem * -----
rem * Input-parameters:
rem * The actual directory has to contain 2 Control-files for this batch:
rem * 1.)ServerList-file "serverls.txt"
rem * Each line consists of 3 fields:Server,user,password
rem * If the line begins with ";" in ServerList, the line will be
rem * ignored
rem * 2.)File "fwpath.txt" with the absolut path of the FirmwareTree
rem * Output-parameters:
rem * 1.)File "oklist.txt" with the list of servers, which are updated
rem * with-
rem * out any errors or which are not flashed because they are actual
rem * 2.)Result-Files <servername>.txt for each server
rem *****
rem
:start
```

7 Command-Line Interface

```
rem
rem *****
rem * WaitServerlist initialisation
rem * (WaitServerList: temporary subset of Serverlist)
rem *****
rem
if exist svwaitls.txt del svwaitls.txt
if exist oklist.txt del oklist.txt
rem
rem *****
rem * Check actual states of all server of the ServerList and StartFlash
rem * Only State "No Flash states" expected - other states will be
cleaned
rem * or aborted first
rem * Only for servers with "No flash states" "StartFlash" is executed
rem * These servers were added to WaitServerlist (WaitForDone-cycle)
rem * StartFlash is executed with Path of FirmwareTree contained
rem * in file fwpath.txt
rem * Batch-File cli-init.bat is called for each server with the param-
eters
rem * of the fields in ServerList
rem *****
rem
for /F "eol=; tokens=1-3 delims=, " %i in (serverls.txt) do call cli-
init %i %j %k
rem
rem *****
rem * WaitForDone cycle
rem * The flashes are running
rem * Now is time to WaitForDone (status ready - hopefully without any
error)
rem * All servers in flashingmode are listed in svwaitls.txt
rem * Each server, returns with timeout is set in svtmps and WaitForDone
rem * is started again
rem * Each server, which returns without errors, is set to oklist.txt
rem * (After CleanUp)
rem * Each server, which finished with errors will left be in error state
rem * all information in the speziell result-file
rem * Batch-File cli-work.bat is called for each server with the
```

```
parameters
rem * of the fields in WaitServerList (subset of ServerList)
rem *****
rem
if not exist svwaitls.txt goto doneall
:waitnxt
if exist del svtpls.txt
for /F "eol=; tokens=1-3 delims=, " %i in (svwaitls.txt) do call cli-
work %i %j %k
if not exist svtpls.txt goto doneall
copy svtpls.txt svwaitls.txt
goto waitnxt
:doneall
@echo All activities done. Listed servers have returned flash without any
error!
@echo -----
type oklist.txt
```

7 Command-Line Interface

File 2

```
rem *****
rem * cli-init.bat *****
rem * *****
rem * Batch File to check states of a special server
rem * and to execute StartFlash if states are ok
rem * -----
rem * Input-parameters:
rem * - cli-init server(%1) user(%2) Password(%3)
rem * - File "fwpath.txt" with the absolut path of the FirmwareTree
rem *****
rem
:start
@echo off
rem
rem *****
rem * Return-File initialisation
rem *****
rem
@echo off >%1.txt
:start1
rem
rem *****
rem * "WaitForDone" to check whether there are old flashes
rem * (prepared, ready) or not
rem * If there are states, they are canceled or ceaned
rem * If server is not "online" Timeout occurred
rem * Only a server without flash-states will be token for flash
rem * Means returncode 1 is the only one to go on for flash!
rem *****
rem
gfcli -W -N %1 -L %2 -P %3 -F %1.txt
if %errorlevel%==1 goto nostates
if %errorlevel%==2 goto timeout
if %errorlevel%==3 goto statenok
if %errorlevel%==4 goto errors
if %errorlevel%==5 goto gfiererror
if %errorlevel%==6 goto nologop
```

```
if %errorlevel%==7 goto noaccess
if %errorlevel%==10 goto parerror
if %errorlevel%==11 goto memerror
if %errorlevel%==0 goto old-ok
@echo.
@echo Undefined returncode!
goto endchk
rem
rem *****
rem * Old Flashes (prepared) detected Cancel them
rem *****
rem
:statenok
@echo.
@echo Unknown Flash States or flash states "prepared" for server %1 avail-
able
@echo Who has started them ? Please check!
@echo After continue the old flashes are canceled
pause
@echo Cancel flash states for server %1
gfcli -A -N %1 -L %2 -P %3 -F %1.txt
if %errorlevel%==1 goto nothtodo
if %errorlevel%==2 goto timeout
if %errorlevel%==3 goto statenok
if %errorlevel%==5 goto gferror
if %errorlevel%==6 goto nologop
if %errorlevel%==7 goto noaccess
if %errorlevel%==10 goto parerror
if %errorlevel%==11 goto memerror
if %errorlevel%==0 goto cancok
@echo.
@echo Undefined returncode!
goto chkend
:cancok
@echo.
@echo All jobs canceled for server %1
goto start1
rem
```

7 Command-Line Interface

```
rem *****
rem * Old Flashes (ready) detected CleanUp them
rem *****
rem
:old-ok
@echo.
@echo Flash States "ready"(without errors) for server %1 available
rem
:old-nok
@echo.
@echo Flash States "ready"(with errors) for server %1 available
goto cleanall
rem
:cleanall
@echo Who has started them ? Please check!
@echo After continue the old flashes are reseted
pause
@echo CleanUp flash states for server %1
gfcli -C -N %1 -L %2 -P %3 -F %1.txt
if %errorlevel%==1 goto nothtodo
if %errorlevel%==2 goto timeout
if %errorlevel%==3 goto statenok
if %errorlevel%==4 goto c-oldnok
if %errorlevel%==5 goto gferror
if %errorlevel%==6 goto nologop
if %errorlevel%==7 goto noaccess
if %errorlevel%==10 goto parerror
if %errorlevel%==11 goto memerror
if %errorlevel%==0 goto c-oldok
@echo.
@echo Undefined returncode!
goto chkend
rem
:c-oldok
@echo.
@echo CleanUP - Jobs detected all ok
goto start1
rem
```

```
:c-oldnok
@echo.
@echo CleanUP - Jobs detected not all ok
goto start1
rem
rem *****
rem * Errors in Check phase
rem *****
rem
:nottodo
@echo.
@echo CleanUp or cancel- No flash states ?????
goto endchk
rem
:timeout
@echo.
@echo - Timeout
goto endchk
rem
:statenok
@echo.
@echo CleanUp, cancel or StartFlash- Wrong state
goto endchk
rem
:gfierror
@echo.
@echo Wait for done, CleanUp or Cancel - gfi error
goto endchk
rem
:sferror
@echo.
@echo StartFlash - generic error
goto endchk
rem
:gfierrol
@echo.
@echo StartFlash - gfi error
goto endchk
```

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```
rem
:nologop
@echo.
@echo - No logon parameters
goto endchk
rem
:noaccess
@echo.
@echo - access denied
goto endchk
rem
:parerror
@echo.
@echo - Parameter error
goto endchk
rem
:memerror
@echo.
@echo - Memory error
goto endchk
rem
:nostates
for /F %i in (fwpath.txt) do set fwp=%i
rem
rem *****
rem * "StartFlash" for the server
rem *****
rem
gfccli -S -N %1 -L %2 -P %3 -U %fwp% -F %1.txt
if %errorlevel%==1 goto nothtodo
if %errorlevel%==2 goto timeout
if %errorlevel%==3 goto statenok
if %errorlevel%==4 goto sferror
if %errorlevel%==5 goto gfierrol
if %errorlevel%==6 goto nologon
if %errorlevel%==7 goto noaccess
if %errorlevel%==10 goto parerror
if %errorlevel%==11 goto memerror
```

```
if %errorlevel%==0 goto stflok
@echo.
@echo Undefined returncode!
goto endchk
rem
:nothtodo
rem
rem *****
rem * "StartFlash"- nothing to do ! - All componentsare up to date
rem *****
rem
@echo Server %1: "StartFlash"- nothing to do ! - All components are up to
date
@echo %1 -Nothing to do - Actual Firmware already installed >>oklist.txt
goto endchk
rem
:stflok
rem
rem *****
rem * "StartFlash"- ok -Flash process running - wait for done for this
server
rem * Server is added to WaitServerList
rem *****
rem
@echo Server %1: "StartFlash"- ok -Flashprocess running - Please wait for
done
@echo %1,%2,%3 >>svwaitls.txt
rem
endchk
```

7 Command-Line Interface

File 3

```
rem *****
rem * cli-work.bat *****
rem * *****
rem * Batch File to check states after flash of a special server
rem * If WaitForDone returned timeout, the server will be added to
rem * tmp-list (=WaitServerlist for next schedule)
rem * if WaitForDone returned with ready and no error the server will be
rem * to oklist
rem * -----
rem * Input-parameters:
rem * - cli-work server(%1) user(%2) Password(%3)
rem *****
rem
: start
@echo off
echo off >%1.txt
gfcli -W -N %1 -L %2 -P %3 -F %1.txt
if %errorlevel%==1 goto nothtodo
if %errorlevel%==2 goto timeout
if %errorlevel%==3 goto statenok
if %errorlevel%==4 goto readynok
if %errorlevel%==5 goto gferror
if %errorlevel%==6 goto nologop
if %errorlevel%==7 goto noaccess
if %errorlevel%==10 goto parerror
if %errorlevel%==11 goto memerror
if %errorlevel%==0 goto ready-ok
@echo.
@echo Undefined returncode!
goto endwk
rem
rem *****
rem * Timeout in this phase is normal
rem * - during Flash there will be more Timeouts
rem * Server is set in tmp-list to be scheduled next time
rem *****
rem
```

```
:timeout
@echo.
@echo - Timeout Server %1 - Go on waiting for a minute
@echo %1,%2,%3 >>svtmp1s.txt
goto endwk
rem
rem *****
rem * In case of error after flash, no Cleanup is done
rem * Error situation has to be analyzed (see return-file)
rem *****
rem
:readynok
@echo.
@echo - Ready Server %1 - errors detected - Analysing necessary
goto endwk
rem
rem *****
rem * Great! Flashes are ready (without error) CleanUp them
rem *****
rem
rem *****
rem * All component of the server were flashed without error
rem * The jobs have to CleanUp
rem *****
rem
:ready-ok
@echo.
@echo Flash States "ready"(without errors) for server %1 available
@echo CleanUp flash states for server %1
gfcli -C -N %1 -L %2 -P %3 -F %1.txt
if %errorlevel%==1 goto nothtodo
if %errorlevel%==2 goto timeoutc
if %errorlevel%==3 goto statenok
if %errorlevel%==4 goto c-oldnok
if %errorlevel%==5 goto gfiererror
if %errorlevel%==6 goto nologop
if %errorlevel%==7 goto noaccess
if %errorlevel%==10 goto parerror
```

7 Command-Line Interface

```
if %errorlevel%==11 goto memerror
if %errorlevel%==0 goto cu-ok
@echo.
@echo Undefined returncode!
goto endwk
rem
rem *****
rem * All component of the server were flashed without error
rem * Clean up is done - the Server is set to OK-list
rem *****
rem
:cu-ok
@echo.
@echo Server %1:All components are flashed without errors
@echo %1 -All components are flashed without errors >>oklist.txt
goto endwk
rem
:c-oldnok
@echo.
@echo CleanUP - Jobs detected not all ok
goto start
rem
rem *****
rem * Errors in Wait phase
rem *****
rem
:nohtodo
@echo.
@echo CleanUp or WaitForDone- No flash states ?????
goto endwk
rem
:timeoutc
@echo.
@echo CleanUp, - Timeout???
goto endwk
rem
:statenok
@echo.
```

```
@echo CleanUp or WaitForDone- Wrong state ???
goto endwk
rem
:gfierror
@echo.
@echo CleanUp or WaitForDone - gfi error ???
goto endwk
rem
:nologop
@echo.
@echo CleanUp or WaitForDone - No logon parameters ???
goto endwk
rem
:noaccess
@echo.
@echo CleanUp or WaitForDone - access denied ???
goto endwk
rem
:parerror
@echo.
@echo CleanUp or WaitForDone - Parameter error ???
goto endwk
rem
:memerror
@echo.
@echo CleanUp or WaitForDonep - Memory error ???
goto endwk
rem
:endwk

Input File "ServerList (serverls.txt)":
aster,Administrator,Password
tulip,Administrator,Password
rose,Administrator,Password
carnation,Administrator,Password

Input File "FirmwarePath (fwpath.txt)":
H:\GlobalFlash\GF_Primergy_Firmware
```

7.1.9 CLI Standalone

There is a separate product "UpdateManagerCLI" that is deliberately meant for environments where there is no ServerView Operations Manager.

But because there is no SVOM there is one major restriction, when running under Linux and intending to update a management blade or connection blade:

As documented in description of the call parameters (**Y** option) the Inventory of the management blade or connection blade must exist as a file (VersionView.sav) and has to be passed via the **Y** option.

But since there is no SVOM there is no Inventory-Service running and thus no Inventory file is built on the system.

Thus without providing the Inventory file via other means it is not possible to update the management blade / connection blade under Linux.

7.2 citfs.bat (batch job)

This tool is programmed for Windows command line to add a new server to the ServerList and update this server to the latest versions of BIOS, firmware and drivers. Afterwards the new servers can be administered as usual by the ServerView GUI.

Requirements

If the ServerView update agent is configured with security (AccountCheck), a user group must be specified (see ["Prerequisites on managed servers" on page 12](#) and ["Prerequisites on the Central Management Station \(CMS\)" on page 16](#)).

Usage of the tool

The tool CITFS (CLI Integration Tool For ServerView) is located on the following directory:

```
<sv om installation path> \svom\bin\ServerView\OnlineUpdate.
```

To execute the tool, open a command prompt and change to specified directory (see above).

```
citfs.bat {<IP-Addr> <servername> <community>} [<User>
<Password>] [force]
```

Description of the parameters

IP-Addr

IP-Address of the new server.

servername

Name of the new server.

community

SNMP-community string.

User / Password

Login user ID and password for access control.

This parameters are only required if the ServerView update agent on the managed node is configured with AccountCheck.

force

Causes the tool to reboot without the interaction of the administrator after the updates.

log files

Log files are created in the following directory:

```
<sv om installation path> \svom\data\ServerView\OnlineUpdate\Logs\<servername>
```

Restrictions

- The repository path might not be a network path.
- Only standard PRIMARY server can be integrated,
- Blade server or ESXi systems cannot be integrated.

Return values

0	Script finished successful
1	Server already exists in the ServerList
2	Server not reachable
3	Server status = not manageable
4	No access to the repository (see restrictions)
5	SVOM directory not found
6	No access to the managed node
7	Server added to the ServerList but update/flash failed
9	Syntax error

8 Troubleshooting

8.1 Error messages in the Update Manager

Below is an overview of the error messages displayed in the **Return Text** field in the **Job Details** dialog box (see "[Job Details dialog box](#)" on page 117).

For each message there is a description of the action you can take to eliminate the error.

APPL_CURRENTLY_RUNNING

Internal overlap of program runs

Action

- In the **Job Details** dialog, click **Show Logfile**.
In the log file which opens, you will find a hyperlink to a zip file containing the diagnostics files for the selected job.
- Save the zip file and send it to your Support of Fujitsu Technology Solutions.

If the update was done successfully but the inventory could not be created because the scheduled task of Inventory Manager is already running for this server:

- Check the inventory and the listed updates in Update Manager.

If data is still old:

- Create the inventory manually via **Inventory Manager - Server List** tab - **Recollect Asset Data from Agents** button.

add job failed

Job initialization error

cleanup failed

Job cannot be deleted

flash failed

Error while updating the managed server

flash timeout

Timeout during completion of the job

manager timeout

Timings exceeded in Update Manager

prepare update failed

Job transfer error

reboot failed

Error while booting the managed server

Action

- In the **Job Details** dialog, click **Show Logfile**.
In the log file which opens, you will find a hyperlink to a zip file containing the diagnostics files for the selected job.
- Save the zip file and send it to your Support of Fujitsu Technology Solutions.

could not transfer job(s)

Job initialization error

pending jobs

Job is in progress or has not been cleaned up

update process aborted

Update process was aborted because the CMS was booted

Action

- Execute the CLEANUP function (see "[Cleanup Wizard](#)" on page 79).
- Copy the errored job and restart it.

boot timeout

Timeout during boot process

timeout wait for boot inactive

Error while booting the update agent

Action

- Check the boot sequence in the BIOS and correct it if necessary.
In the BIOS setup, **LAN/PXE** must be the first entry in the boot sequence.
- Then restart the managed server.

agent offline

Update agent not found

Action

- Rectify any connection problems.
- If this does not help, reinstall the update agent.

Flash Cancelled by User

*User aborted **Flash Abort** dialog with **Cancel***

Action

- Restart the update (via Create Job or Copy Job) after consulting the user of the updating server.

Applies:

- Managed server with operating system Windows
- **GlobalFlash Agent** Win <=V4.71.xx configured with **Flash Abort** dialog
- User was logged in to the console of the managed server and aborted the **Flash Abort** dialog with **Cancel**

jobs on same server not accepted: "<jobname>" is active

A previously started job is already running on the server

Action

- Check **Job Details** tab for running jobs relating to this server.
- Wait until the running job has finished before starting a new job.

Previous job for this server was unexpectedly interrupted

Action

- Execute a manual cleanup (**Server Details** tab > select the server > click **Cleanup**).
- If the cleanup job produces the same error as the update job, manually do the following on the management station:
 - Change to directory ...\\ServerView\\ServerView Services\\scripts\\ServerView\\OnlineUpdate.
 - Check the existence and content of the file <server>.lck.
 - If the <jobname> indicated in the error message is mentioned in the file <server>.lck, delete this file.

job canceled by second failover

Error due to multiple switching of the high availability Cluster

Action

- Execute Cleanup.
- Copy the job and restart it.

ERROR_DC_DATA

Rescanning error caused by Inventory Task

Action

- Within applet Inventory Manager > tab **Manage Diagnostics**, check the inventory log-file.
 - Select the corresponding server name in the tree view.
 - In the table, select the task **Once Immediately** with **Description = Inventory Data**.
 - **Select Log**: Select the corresponding date.
The content of the selected log file will be shown in the output field below.
 - Check the DB Status
- If following values for DB Status are reported the Inventory was created successful but Inventory contains converted data.
 - **Data Status = Incomplete**
 - **Message = Non-Ascii data converted**

8.2 Error messages in the Download Manager

If the Download Service has stopped working due to missing credentials or other reasons the following will occur:

- Scheduled download tasks will not be started
- Once immediate tasks will remain in the status **running**

All defined tasks will be executed automatically after the ServerView Download Service is started again.

For trouble shooting, please, see ["Error messages in the Configuration Wizard" on page 270](#).

Below is an overview of the error messages displayed in the **Error** column on the **LogFiles** tab (see ["Log Files Tab" on page 165](#)).

For each message there is a description of the action you can take to eliminate the error.

Server not in database

The server of this task is not in the database.

Download action is not started, logging file is not created.

Server not manageable

The server of this task is not manageable.

Download action is not started, logging file is not created.

Unsupported server

The download task is not supported for the selected server type.

Download action is not started, logging file is not created.

No supported and manageable server in group

The group of servers that was assigned for the download task does not contain supported manageable servers.

Download action is not started, logging file is not created.

Task aborted

The download task is aborted.

Logging file may not be created.

Task aborted due to timeout

The download task is aborted due to a timeout.

Task time not determined

The task time cannot be determined.

Download action is not started, logging file is not created.

Task time not in future

The task is not started because the task time defined is not in the future.

Logging file is not created.

Task not started

The task cannot be started .

Logging file is not created.

Another task for this server already started

Another task is currently running a download for the server.

Logging file is not created.

Task settings invalid

The task cannot be started because the task settings are invalid.

Logging file is not created.

Initialization error

The download action could not be started successfully.

Logging file is not created.

Possible reason: missing access permissions in the file system (for creating/removing file or directory in workdir or repository directory).

Download error

The file download from the web server failed.

Uncompression error

The uncompression of the downloaded files failed.

Network problems

The download from the web server failed due to network problems.

Update check not started

The update check failed to start.

Unsupported Server Model

The server model is not supported.

No/Illegal Agent

Missing or illegal update agent on the managed node.

Missing Inventory

The inventory is missing.

1. Start the Inventory Manager.
2. Click the **Server List** tab.
3. Check the **Data State** column for this server.

If the **Data State** is not **OK**, recollect the inventory for this server.

4. Select the server on the tab.
5. Click **Recollect Asset Data from Agents**.

If the **Data State** is still not **OK**:

6. Check the ServerView agents on the server.

Remote Access to Repository failed

Remote access to the repository failed.

Update Check Failed

The update check failed.

8.3 Error messages in the Configuration Wizard

The following error message can occur after activating the configuration task:

Configuration task has not been started on Central Management Station. Please, check if ServerView Download Service is stopped and restart the service. For more details, check system event log messages with source 'ServerView Update Manager'. It may be that ServerView Download Service has no credentials for accessing database ServerViewDB.

Troubleshooting on Windows CMS:

1. Look for entries in the event viewer:

Windows logs > Application with source ServerView Update Manager and MSSQL\$SQLSERVERVIEW

2. If there are entries containing messages like

Login failed for user '.....'. [CLIENT: <local machine>]

or

Application=DownloadService

Function=resetRepositoryState

resetRepositoryState: am_openDB failed, errMsg=[Microsoft][SQL Native Client][SQL Server]Login failed for user '.....'.

then the ServerView Download Service has no credentials for accessing the database ServerViewDB.

In this case:

- Stop the ServerView Download Service.
- Modify the credentials for logon user for the ServerView Download Service as described in section **Update Management Logon** in ["Prerequisites on the Central Management Station \(CMS\)" on page 16.](#)

- Check via the Task Manager if the **DownloadServer.exe** process is still running . The process retries several times to connect to the database and it may take up to 15 minutes until it gives up.
 - Stop **DownloadServer.exe** via the Task Manager or wait until it stops running.
 - Restart the ServerView Download Service using the new credentials.
3. In other error situations:
- Restart the ServerView Download Service.

Troubleshooting on Linux CMS:

Look for error entries under **/var/log/messages** with source **ServerView Update Manager** and restart the ServerView Download Server.

Linux Mgmt.Station using Repository on Network Drive

Error situation with ntfs filesystems mounted with type cifs

(Samba, occurred with SLES11 SP1, RHEL6)

Samba-mount might use a 64-bit-file-pointer depending on kernel-version/Samba-version/size of file systems on Linux. This might force problems with our 32-bit-applets.

The following error can occur during setting values with **Configuration Wizard > Use existing Repository > Repository on Network Drive** although content of Repository is correct:

Error **Remote path <value> does not contain repository**

Workaround:

Use additional option `-o noserverino` for mounting the network drive.

Management Station with OS=RHEL6, using local DVD drive for initializing repository from DVD

If you want to initialize your repository from DVD this may fail because you do not have the right permissions for reading the DVD.

The mount point itself and the directories above must have *read* access for user **svuser**.

When you have inserted the DVD into the local DVD drive the automounter will mount it automatically to */media/<DVD volume>*.

- Check the permissions of this directory.

If you have read permissions for user root only

- Umount the DVD drive.
- Mount DVD drive again with the command: `mount -t udf -o ro,mode=555,nodev <DVD drive> <mountpoint>`.

8.4 Error messages in the Repository Manager

The following error message can occur after activating an action in the Repository Manager:

Repository task has not been started on Central Management Station. Please, check if ServerView Download Service is stopped and restart the service. For more details, check system event log messages with source 'ServerView Update Manager'. It may be that ServerView Download Service has no credentials for accessing database ServerViewDB.

Tasks from the Repository Manager has been executed from the ServerView Download Service on the central management station. This error message will occur if the ServerView Download Service has stopped working. For detailed troubleshooting, see "[Error messages in the Configuration Wizard](#)" on page 270.

8.5 Problems with Single Sign-On

For ServerView Operations Manager since V5.0 and ServerView Update Agent since V5.0 configured with AccountCheck.

If any of the steps to validate the manager certificate on the managed server fail (communication between requester and provider, remote connector service) the access status of the managed server will be set to **restricted** and authentication via logon (user/password) will be used.

8.6 Problems with entries in the tree structure

A managed server was displayed in the tree structure of the Update Manager / Download Manager.

After a check run the managed server is no longer visible in the tree structure.

Possible reason

The management controller on the managed server is no longer working.

This causes

1. The inventory has the value **N/A** for **Chassis**.

This can be checked with applet **Inventory Manager - Show Inventory**.

2. The check for the supported model returns **unsupported model**.

The managed server is removed from the tree structure of Update Manager / Download Manager.

Solution

Repair the management controller on the managed server.

8.7 Problems with components

Situation

BXxxx with 2 management blades.

One of these management blades is degraded.

Solution

Before you update the management blade firmware:

1. Repair the degraded management blade.
or
1. Remove the degraded management blade from Chassis.
2. Recollect the inventory of BXxxx again.

8.8 Event ID 2370 on managed node

Concerns Event ID 2370

Windows: Event Viewer

Linux: `/var/log/messages`

`/var/log/fujitsu/ServerViewSuite/SCS/log.SVRRemoteConnector`

WARN: SSL sends error for the 'handshake tests'. This request will be ignored ! It might be missing encryption or problems with authentications. For more technical information see following data:

IP=<ipadr>

SOAP-ENV:Receiver

SSL_ERROR_SSL

error:140890B2:SSL routines:SSL3_GET_CLIENT_CERTIFICATE:no certificate returned

SSL_accept() failed in soap_ssl_accept()

Event ID 2370 on managed node, caused by Update Management Configuration requirement:

CMS:

- ServerView Update Manager Win/LX (applet of SV Operations Manager) $\geq V 5.0$ (includes Remote Connector Service > 1.06)

Managed node:

- ServerView Agent Win/LX $\geq V 5.0$ (includes Remote Connector Service > 1.06)
- ServerView Update Agent Win/LX $\geq V 5.0$ configured with Account Check
- Certificate of CMS ist not installed on managed node !
(=> Update Manager: **Agent Access = not certified** for this managed node)

To avoid Event ID 2370 on those servers:

- Install certificate of CMS (IP Address is content of Event ID Entry) on managed node.
or
- The owner of the CMS should remove this server from applet **Server-List** if not needed.

8.9 Installation/Uninstallation of updateable components without using Update Manager

Recommendation: Use ServerView Update Manager to update updateable components.

If updateable components were updated without Update Manager, follow the instructions below to update data within the ServerView Operations Manager database (Update Manager, Inventory Manager, ...):

"drivers and add-on-products" which are contained in Primergy Support Packages (PSPs):

1. Update the registry on the managed node (concerning PSPs)

Restart ServerView Update Agent / GlobalFlash Agent (implicit **PrimeUp -reginit** is executed)

or

Change to directory **<inst-path>\PrimeUp\current\FSC_SCAN** and call **PrimeUp -reginit**

2. Update the inventory on the managed node.

ServerView Agents for Windows:

Restart Agents.

3. Update the inventory on the management station (implicit check is executed)

Inventory Manager:

Recollect Asset Data from Agents.

Firmware/BIOS

1. Update the inventory on the managed node.

Windows: ServerView Agents for Windows:

Restart Agents.

Linux: ServerView Agents for Linux :

`sh /etc/init.d/SVforceVV.sh`

2. Update the inventory on the management station (implicit check is executed):

Inventory Manager:

Recollect Asset Data from Agents.

SV Update Agent Win <=V4.81.02, Linux <=V4.80-07/GlobalFlash Agent Win/Linux <=V4.71.01

1. Update the inventory on the managed node.

Windows: ServerView Agents for Windows:

Restart Agents.

Linux: ServerView Agents for Linux :

`sh /etc/init.d/SVforceVV.sh`

2. Update the inventory on the management station (implicit check is executed):

Inventory Manager:

Recollect Asset Data from Agents.

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