FUJITSU

UPDATE MANAGER EXPRESS DVD AND CONTENT COLLECTOR

Content

Update Manager Express DVD and Content Collector

Introduction

The Update Manager Express on the Fujitsu Software ServerView Update DVD and Update DVD Base package installs firmware, BIOS and Windows drivers for various components in Fujitsu PRIMERGY servers. During the installation the Update Manager Express uses self-extracting and self-installing software packages known as Autonomous Support Packages (ASPs) for BIOS and Firmware or PRIMERGY Support Packages (PSPs) for Windows drivers respectively.

The DVD ISO image on the ServerView Update DVD includes a bootable OS (CentOS). With it a Fujitsu PRIMERGY server can be booted and BIOS/FW updates can be installed autonomously of the disk storage system within the server.

Additionally, the DVD ISO image includes a script to copy the content of the DVD to a Bootable USB Update Stick.

Contrary to the Update Manager of the FUJITSU Software ServerView Suite which can supply entire data centers with firmware, the Update Manager Express is ideal for locally updating individual systems.
With supported Windows and Linux operating systems the firmware and BIOS can be installed using the graphic user interface of the Update Manager Express or via the command line interface (CLI). Additionally, with Windows the possibility to install drivers is given.

Recently introduced ServerView Update DVD Base package contains components and tools necessary to create a Bootable USB Update Stick that offers the same functionality as ServerView Update DVD. Advantage of this approach over using a DVD ISO image is a possibility to create a customized update repository with the newest available updates at any time with usage of ServerView Content Collector.

This document will give some usable hints for the following topics:

- New location of ServerView Update DVD files
- Main differences between full blown Update DVD and Update DVD Base
- Difference between online flash and offline flash
- Important changes made in Update DVD / Update DVD Base 11.15.xx
- Supported PRIMERGY server systems
- How to create the Bootable USB Update Stick
- How to use ServerView Content Collector for the Bootable USB Update Stick
- Best practice for older PRIMERGY server systems
- Additional feature HDD Flash and PrimeCollect
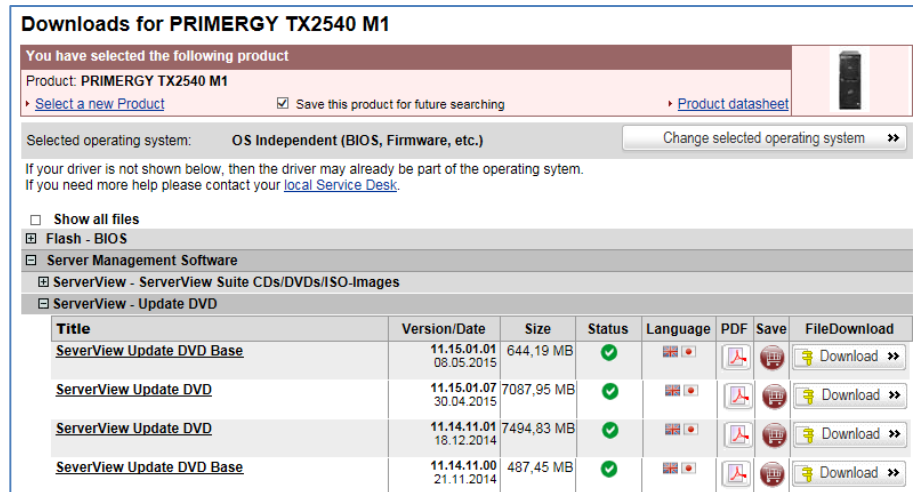- Using the online mode

Details

New location of ServerView Update DVD files
Since end of 2014 the ServerView Update DVD (in the following referred to as Update DVD for short) is no longer available via FTP download but on the FUJITSU Drivers & Downloads web page [1)]
Please select your product [2)] and refer to section
> *Server Management Software → ServerView - Update DVD*

Picture 1: location of Update DVD files on FUJITSU Drivers & Downloads web page (shortened view)

Main differences between full blown Update DVD and Update DVD Base
There are two variants of ServerView Update DVD product available in the FUJITSU Drivers & Downloads web page:
full blown ISO image: *ServerView Update DVD* and base archive: *ServerView Update DVD Base*

Obviously they differ in size but there are some more differences in detail:

	ServerView Update DVD	ServerView Update DVD Base
size	>7 GB	<1 GB
format	ISO	ZIP
direct bootable	Yes	No. The Bootable USB Update Stick needs to be created.
ASP / PSP repository available	Yes	No. Should be created with usage of Content Collector.
create bootable USB Update stick	Yes	Yes and additionally: Content Collector starts automatically after the Bootable USB Update Stick is created.

Hint:
In case you have a PRIMERGY server system with a valid AVR license key installed, you are able to attach the ISO file directly into the AVR session and boot from that or use the online flash ability of the Update DVD under already running supported operating system.

Difference between online flash and offline flash
The full blown Update DVD contains a Windows batch file (.\UpdateMgrExpress.bat) and a Linux shell script (.\UpdateMgrExpress.sh) for using the DVD online in running OS. This option requires an installed and running ServerView Agent and Java Runtime Environment (JRE) installed! In case you have installed Java and the Windows batch terminates with "No Java found", please ensure to have the appropriate Java version (32bit or 64bit) installed on your PRIMERGY server system. The updates can be flashed online in running OS while your PRIMERGY server system is still running. In most cases a reboot of the server is necessary for the changes to take effect.

Booting the PRIMERGY server system from the full blown Update DVD or from Bootable USB Update Stick is called offline flash since the PRIMERGY server system is started from a media. All updates are done with a shutdown host OS.

Important changes made in Update DVD / Update DVD Base 11.15.xx
-based on Cent OS 7.0 (64bit)
-updates only available for the recent PRIMERGY server systems
-additional online update support for RHEL 6.6, 7.1, SLES 12
-dependency check between BIOS and iRMC version (some BIOS updates can only be installed, if installed iRMC firmware is at least 7.70F)
-no JAVA catalogue (/Tool/GENERAL/JAVA) available on the Update DVD / Update DVD Base, Java Runtime Environment (JRE) has to be installed on the PRIMERGY server system when using the online mode

Supported PRIMERGY server systems
The well-known Update DVD 11.14.11 supports PRIMERGY server systems up to generation S8 and some of the M1 generation (left column).
The new Update DVD / Update DVD Base 11.15.xx supports the S8 and M1 generation of PRIMERGY server systems (right column).
Some PRIMERGY server systems are supported from both Update DVD / Update DVD Base versions 11.14.11 and 11.15.xx (center column).

Update DVD / DVD Base 11.14.11	Update DVD / DVD Base 11.14.11 **and** Update DVD / DVD Base 11.15.xx	Update DVD / DVD Base 11.15.xx
BX620 S4, BX620 S5, BX620 S6, BX630 S2, BX630 S2, BX920 S1, BX920 S2, BX920 S3, BX920 S4, BX922 S2, BX924 S2, BX924 S3, BX924 S4, BX960 S1	BX920 S4, BX924 S4	BX920 S4, BX924 S4, BX2560 M1, BX2580 M1
CX122 S1, CX250 S1, CX250 S2, CX270 S1, CX270 S2, CX272 S1		CX2550 M1, CX2570 M1
Econel 100S 2, MX130 S1, MX130 S2		
RX100 S4, RX100 S5, RX100 S6, RX100 S7, RX100 S7p, RX100 S8, RX200 S3, RX200 S4, RX200 S5, RX200 S6, RX200 S7, RX200 S8, RX330, RX300 S3, RX300 S4, RX300 S5, RX300 S6, RX300 S7, RX300 S8, RX350 S7, RX350 S8, RX500 S7, RX900 S1, RX900 S2, RX600 S4, RX600 S5, RX600 S6, RX1330 M1, RX4770 M1	RX100 S8, RX200 S8, RX300 S8, RX350 S8, RX1330 M1, RX4770 M1	RX100 S8, RX200 S8, RX300 S8, RX350 S8, RX1330 M1, RX2520 M1, RX2530 M1, RX2540 M1, RX2560 M1, RX4770 M1
SX150 S8, SX350 S8	SX150 S8, SX350 S8	SX150 S8, SX350 S8
TX100 S1, TX100 S2, TX100 S3, TX100 S3p, TX120 S2, TX120 S3, TX120 S3p, TX140 S1, TX140 S1p, TX140 S2, TX150 S5, TX150 S6, TX150 S7, TX150 S8, TX200 S3, TX200 S4, TX200 S5, TX200 S6, TX200 S7, TX300 S3, TX300 S4, TX300 S5, TX300 S6, TX300 S7, TX300 S8, TX1310 M1, TX1320 M1, TX1330 M1 TX2540 M1	TX140 S2, TX150 S8, TX300 S8, TX1310 M1, TX1320 M1, TX1330 M1, TX2540 M1	TX140 S2, TX150 S8, TX300 S8, TX1310 M1, TX1320 M1, TX1330 M1, TX2540 M1, TX2560 M1

For all PRIMERGY server systems that are listed in the left column and that are not supported by Update DVD / Update DVD Base 11.15.xx, please use Update DVD Base 11.14.11 archive and Content Collector.
Please refer to section "Best practice for older PRIMERGY server systems" for more information.

Hint:
Despite of extensive tests not all BIOS and iRMC combinations on all released PRIMERGY server systems could be tested.
In case you experience boot problems with the actual Update DVD / Bootable USB Update Stick, please check you are using the correct version, where both versions are allowable try the other version.
The section "Best practice for older PRIMERGY server systems" gives an example of using Update DVD Base archive and Content Collector.

How to create the Bootable USB Update Stick
The Bootable USB Update Stick (in the following referred to as update stick for short) can be created from the full blown Update DVD or from the Update DVD Base archive.

Requirements:
-a Windows host
-an empty USB stick, size 2-8 GB

Source	Update DVD 11.15.01	Update DVD Base 11.15.01
Size recommended	8 GB	2-4 GB
Duration	>1 hour	a few minutes
Location of *CreateUSBStick.bat*	.\Tools\GENERAL\UMEtoStick	.\Build-Tools
Location of documentation	.\Manuals	.\Manuals

Open a CMD with administrative privileges, change to the directory where *CreateUSBStick.bat* is located and run the script
CreateUSBStick.bat <drive letter of USB stick>
e.g. *CreateUSBStick.bat f:*
For more information, please refer to the mentioned above documentation.
The creation of the update stick will take some minutes, especially when you start the script from the full blown Update DVD.

Hint:
In case you create the update stick from the full blown Update DVD, the whole firmware tree is also copied to your USB stick.
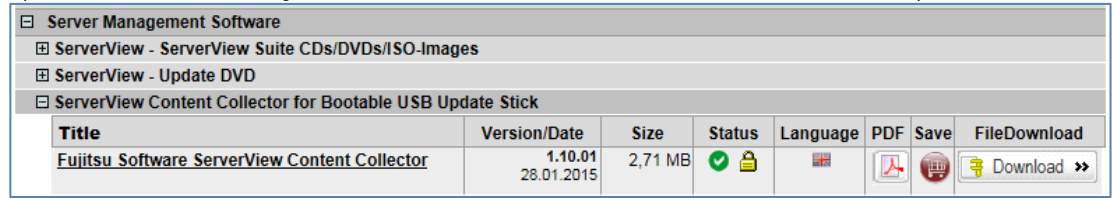This needs additionally around 6GB of space and the appropriate time depending of the speed of your USB stick.

How to use ServerView Content Collector for the Bootable USB Update Stick
The ServerView Content Collector for the Bootable USB Update Stick (in the following referred to as Content Collector for short) is found
-on the FUJITSU Drivers & Downloads web page *[1]
-on the full blown Update DVD, Update DVD Base archive and on the created update stick at .\Tools\GENERAL\ContentCollector

This tool allows the user to select and download the latest firmware for PRIMERGY systems.

On the FUJITSU Drivers & Downloads web page *[1], select a PRIMERGY server system and an operating system.
Open the section *Server Management Software* → *ServerView Content Collector for Bootable USB Update Stick* and download the latest version:

Server Management Software							
⊞ ServerView - ServerView Suite CDs/DVDs/ISO-Images							
⊞ ServerView - Update DVD							
⊟ ServerView Content Collector for Bootable USB Update Stick							
Title	**Version/Date**	**Size**	**Status**	**Language**	**PDF**	**Save**	**FileDownload**
Fujitsu Software ServerView Content Collector	1.10.01 28.01.2015	2,71 MB	✓ 🔒	🏴	📄	🚫	📥 Download »

Picture 2: location of ServerView Content Collector for Bootable USB Update Stick
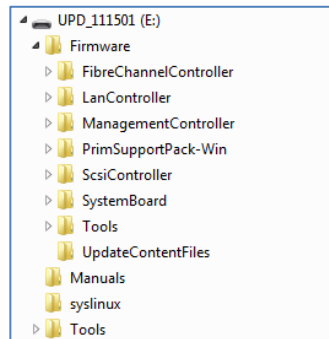
Extract the downloaded archive to your local hard disk and run the application *ContentCollector.exe* with administrative privileges.

Hint:
You need Java Runtime Environment version 7 or higher installed, administrative privileges and a working internet connection.

Usage of Content Collector in short:
-define a proxy server and the appropriate port if necessary,
-select the location where the update files are saved to (local hard disk, already created update stick or network share are possible)
-select the PRIMERGY server system(s) that you intend to update
-select the component(s) that may need to be updated
-download the selected updates

After having downloaded all updates you need, don't forget to copy the files to the update stick if not done already.
The main directory *Firmware* should be located in the root of the update stick.

```
⊿ 💾 UPD_111501 (E:)
   ⊿ 📁 Firmware
      ▷ 📁 FibreChannelController
      ▷ 📁 LanController
      ▷ 📁 ManagementController
      ▷ 📁 PrimSupportPack-Win
      ▷ 📁 ScsiController
      ▷ 📁 SystemBoard
      ▷ 📁 Tools
        📁 UpdateContentFiles
     📁 Manuals
     📁 syslinux
   ▷ 📁 Tools
```

Picture 3: directory structure of the update stick

Boot your PRIMERGY server system with that prepared update stick and update the components that need an update.

A video of using the Content Collector is available at: https://www.youtube.com/watch?v=KhWF43lBVMk

A full documentation of Content Collector is available at FUJITSU manuals web page. *[2]
Select *x86 Servers* → *Software* → *ServerView Suite* → *Update Management* → *ServerView DVD Base and ServerView Content Collector*

Best practice for older PRIMERGY server systems

Since the Update DVD series 11.14.xx is not updated anymore, the best practice for updating older PRIMERGY server systems is:

-download Update DVD Base 11.14.11 from the FUJITSU Drivers & Download web page [*1)]

-create the update stick

-download the necessary updates with Content Collector

-merge the downloaded files with the created update stick if not already saved to this update stick

-attach the prepared update stick locally or via AVR to the PRIMERGY server system that needs to be updated and boot from that update stick

-update the components that need to be updated, either in *Quick Mode* or in *Normal Mode*
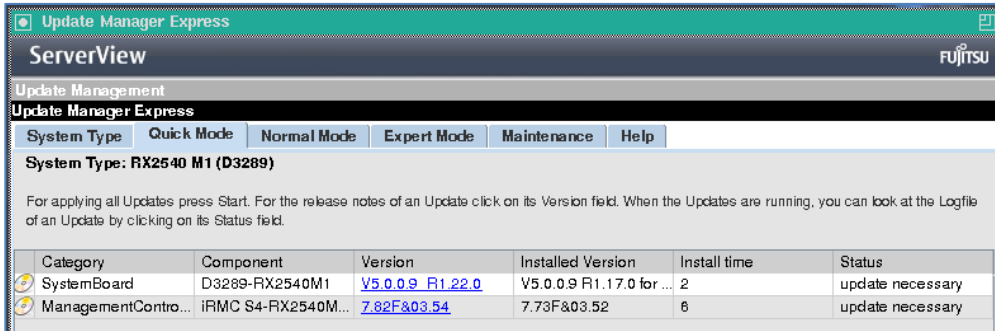
Picture 4: offline mode, all updates offered and done in *Quick Mode*
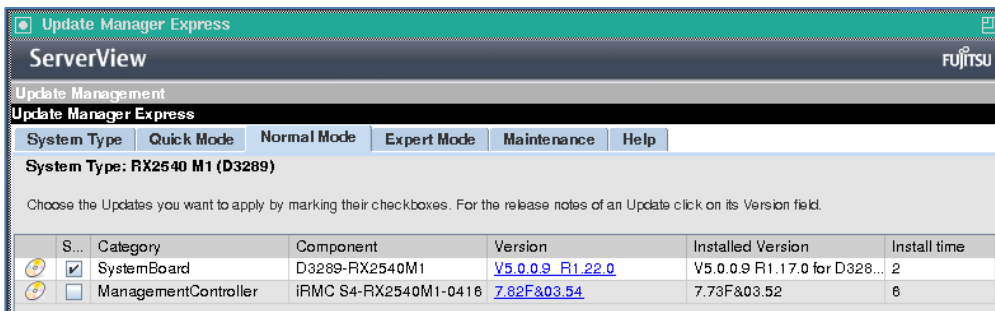
Picture 5: offline mode, select the necessary updates in *Normal Mode*

Hint:

Using the Quick Mode, all updates are done without user intervention.

The Normal Mode allows the user to select the updates.

Click on the blue version number to get detailed information about the version.

The direct link to Update DVD Base 11.14.11 is:

http://support.ts.fujitsu.com/download/Showdescription.asp?SoftwareGUID=AEDD22AE-55AD-44AF-8C17-BAB90E691D6E
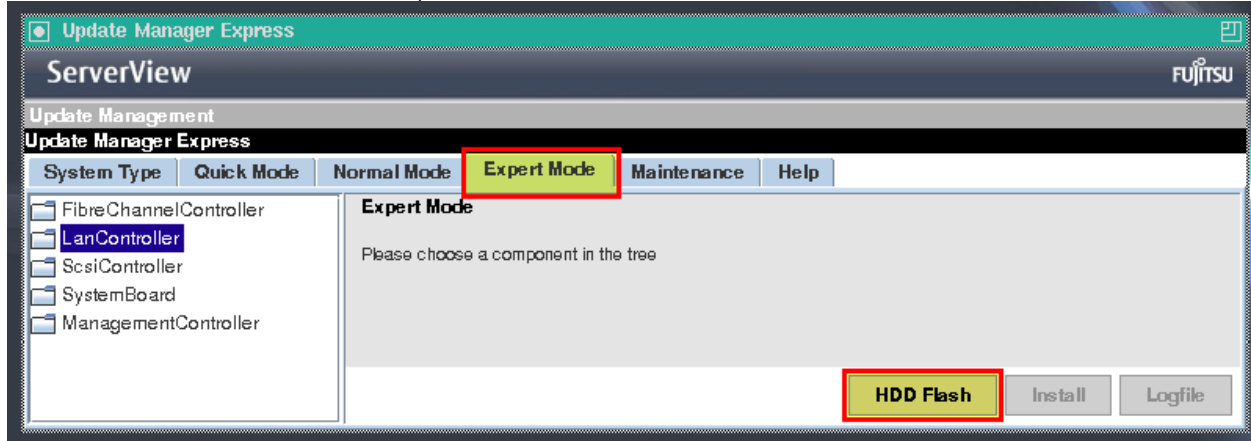
Additional feature HDD Flash and PrimeCollect

The Update DVD and the update stick offer some useful features that may not be known in the field.

These features are:

HDD Flash and PrimeCollect

HDD Flash

The function HDD Flash is found in the tab *Expert Mode*:

Picture 6: offline mode, tab *Expert Mode – HDD flash* (shortened view)

Use this function to update the firmware of hard disks if necessary. This option is only available if booted from Update DVD or from the update stick, the so called "offline mode".

PrimeCollect

Some installations in the field are not allowed to have the ServerView Agent on the PRIMERGY server systems installed. Booting from the Update DVD or from the update stick is quick and the PrimeCollect can be created via the tab *Maintenance*:
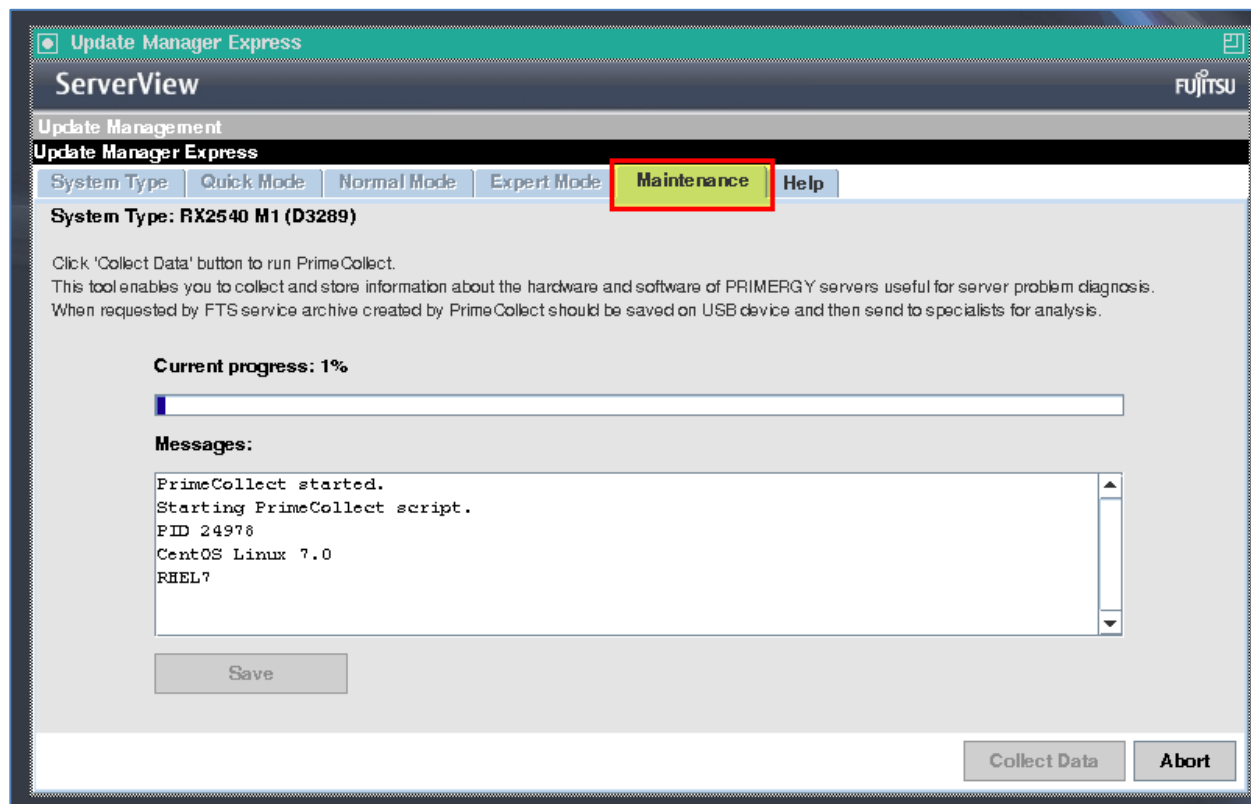
Picture 7: offline mode, tab *Maintenance* (shortened view)

Click on the button [Collect Data] and the process begins. The [Save] button gets active when the PrimeCollect archive is finished.

Please use a separate local USB stick to save the archive. The file format on this separate USB stick should be FAT32 and plugged in <u>after</u> the Update DVD or the update stick has been booted.

For more details please refer to the document *.\Manuals\USB Restrictions for PrimeCollect Report.pdf* located on the Update DVD or the update stick.

Using the online mode

Up to here only the offline mode and its update possibilities were described. As already mentioned before, the Update DVD and the Update DVD Base archive respectively the created update stick can also be used in online mode.
In offline mode it is only possible to update firmware or BIOS for the inserted controllers and the mainboard. In online mode it is also possible to update drivers and installed ServerView software components.
Prerequesites: a running released operating system with ServerView Agent running and Java Runtime Environment installed

Insert the Update DVD or attach the update stick to the PRIMERGY server system and run the appropriate script which is located in the root of the media:
for Windows operating system: .\UpdateMgrExpress.bat
for Linux operating system: .\UpdateMgrExpress.sh

The Update Manager Express GUI starts and just like in offline mode, the possible updates are offered.
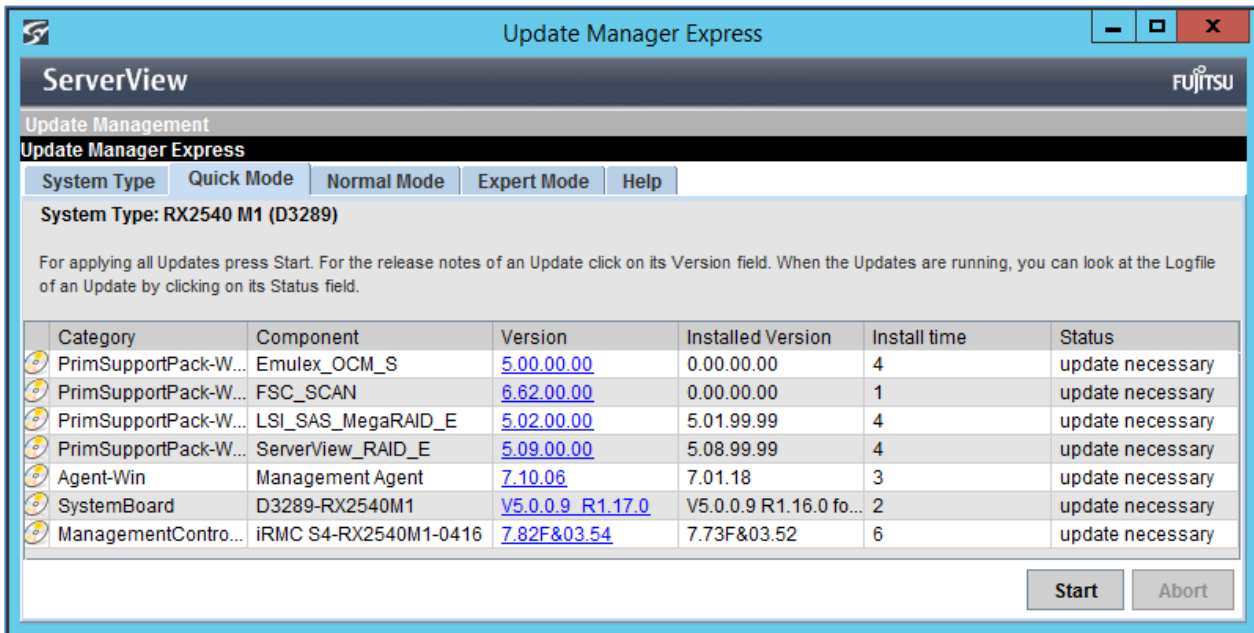
Picture 8: online mode, firmware, drivers and ServerView software components are offered for updating

Using the Quick Mode, all updates are done without user intervention.
The Normal Mode allows the user to select the updates.
Click on the blue version number to get detailed information about the version.

Additional Information

*[1] The FUJITSU Drivers & Downloads web page is available at http://ts.fujitsu.com/support/downloads.html

*[2] A guide how to use the FUJITSU Drivers & Downloads web page is available at:
ftp://ftp.ts.fujitsu.com/images/TapeFacts/general/FTS_How_to_use_the_download_portal.pdf

*[3] The FUJITSU manuals web page is available at http://manuals.ts.fujitsu.com

The data sheet to FUJITSU ServerView Update DVD and ServerView Update Manager Express is located at:
http://globalsp.ts.fujitsu.com/dmsp/Publications/public/ds-svs-ume-asp-en.pdf

A video guide for the usage of ServerView Content Collector for Bootable USB Update Stick is available at:
https://www.youtube.com/watch?v=KhWF43lBVMk

Before updating any component, please ensure to have a working backup of the system!