### PRIMERGY ServerView Suite ServerView Remote Management Frontend

ServerView Operations Manager V4.90

Edition June 2009

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### 1 Preface

The ServerView Remote Management Frontend provides you with a web-based working environment for the remote management of PRIMERGY servers which is integrated in the ServerView Operations Manager. The ServerView Remote Management Frontend is started from the ServerView Operations Manager and the installation of this application is therefore a necessary precondition.

The ServerView Remote Management Frontend and the ServerView Operations Manager are referred to below as the Remote Management Frontend and the Operations Manager respectively.

You simply need a standard web browser for the display at the remote workstation. You can open a separate browser window for each PRIMERGY server displayed in the Operations Manager *ServerList* window. From here, you can then open various windows for the remote management of the corresponding PRIMERGY server.

As a web-based solution, the Remote Management Frontend can be installed on a remote workstation set up under a Windows or Linux system.



In the case of an individual PRIMERGY server with installed iRMC/ iRMC S2, you can also use the Remote Management Frontend functionality via this iRMC/ iRMC S2's web interface (See the manuals "iRMC - integrated Remote Management Controller" and "iRMC S2 - integrated Remote Management Controller").

### 1.1 Overview

The type of window displayed in the Remote Management Frontend depends, on the one hand, on the hardware (iRMC, RSB etc.) which you use to establish the connection to the managed server and, on the other, on the interface which is provided in each case.

### Hardware-specific displays in the Remote Management Frontend

The Remote Management Frontend's displays and controls are adapted to the remote hardware via which you establish the connection to a managed PRIMERGY server:

- In the case of a PRIMERGY server with an installed iRMC or iRMC S2, you can use either the Telnet/SSH "Remote Manager" application or the managed server's power management and console redirection window in the Remote Management Frontend's console area.
- In the case of a PRIMERGY server with an installed RSB or RSB S2/ RSB S2 LP (as of firmware version 6.4.57.29), the Telnet "Remote Manager" application is available to you in the Remote Management Frontend's console area once a connection has been established.

### Only in the case of RSB:

You can use the Remote Manager to redirect the display at the console of the managed server. In this way, you can access the BIOS setup and the RemoteView/Diagnose system tools on the managed server.

- In the case of a PRIMERGY server with an installed **BMC** with firmware version 2.x or higher, the managed server's power management and console redirection window is available in the Remote Management Frontend's console area after the establishment of a connection.
- In the case of a blade server with a **RemoteView Management Blade**, the RemoteView Management Blade Telnet "Console Menu" application is available to you in the Remote Management Frontend's console area after the establishment of a connection. You can use the Console Menu to redirect the display at the consoles of the managed server blades. In this way, you can access the BIOS setup at the managed server blade.

### The interface provided by the Remote Management Frontend for the remote management of PRIMERGY servers:

Depending on the hardware available for remote management on the individual managed servers, the Remote Management Frontend provides the following interfaces for web-based access to the managed servers.

- Telnet-based interface (Remote Manager)
   Depending on the managed PRIMERGY server, the connection may be established via
  - an iRMC/ iRMC S2 or
  - an RSB/ RSB S2/ RSB S2 LP (3HU) with firmware version 6.4.57.29 or higher.
- Telnet-based interface (Console Menu) via a RemoteView Management Blade
- SSH-based interface (Remote Manager) via an iRMC/ iRMC S2.
- Interface for power management and console redirection (IPMI (1.5)-over-LAN-based) via a Kalypso BMC (BMC - firmware version 2.x or higher)
- Interface for power management (IPMI (2.0)-over-LAN-based) and console redirection (via SOL) via
  - an iRMC/ iRMC S2 or
  - a BMC of the RX/TX 600 S2/S3

### 1.2 Structure of the manual

This manual provides you with information about the following topics:

### - Chapter 1: Preface

This chapter provides you with a brief overview of the Remote Management Frontend.

### - Chapter 2: Configuration

This chapter describes how you can configure the basic settings of the Remote Management Frontend depending on your requirements.

### - Chapter 3: Starting the Remote Management Frontend

This chapter describes how you start the Remote Management Frontend via the graphical user interface of the Operations Manager, the prerequisites that must be fulfilled and the special requirements that exist depending on the remote management hardware used in the managed server.

### - Chapter 4: Working with the Remote Management Frontend

This chapter starts by explaining the structure and components of the Remote Management Frontend user interface. It then describes how you establish a connection to a managed server via the Remote Management Frontend's user interface.

### Chapter 5: Security

This chapter provides a brief overview of password protection in the Operations Manager and in the remote management hardware.

### **1.3** Changes since the last edition

This edition is valid for the Remote Management Frontend V4.90 and replaces the following online manual: "Remote Management Frontend V4.80", edition April 2009.

### 1.4 Notational conventions

The meanings of the symbols used in this manual are as follows:

Warning	This symbol is used to draw attention to risks which may represent a health hazard or which may lead to data loss or damage to the hardware.
i	This symbol is used to highlight important infor- mation and tips.
►	This symbol indicates an action which you must carry out.
Text in italics	In running text, commands, menu items, and the names of buttons, options, files and paths are shown in <i>italics</i> .
<text></text>	Indicates variables which must be replaced by current values.
Monospaced font	Output from the system is shown in monospaced font.
Monospaced font Bold monospaced font	Commands to be entered at the keyboard are shown in bold, monospaced font.
[square brackets]	Indicate optional entries.
{braces}	Indicate a list of alternatives separated by "I".
[Keyboard] [symbols]	Keys are shown as they appear on the keyboard. If uppercase characters are to be entered explicitly, this is indicated for instance by $[SHIFT]$ - $[A]$ for A.
	If two keys are to be pressed simultaneously, this is indicated by a hyphen between the two keyboard symbols.

Table 1: Notational conventions

If reference is made to passages elsewhere in this manual, the title of the chapter or section is named and the page number given refers to the start of the section.

### 2 Configuring the Remote Management Frontend

You can use configuration files to make the following settings for the Remote Management Frontend:

- Multisession support for power management and console redirection via BMC/ iRMC/ iRMC S2 and display of the buttons for SSH access (iRMC/ iRMC S2) and power management/console redirection (iRMC/ iRMC S2) in the Operations Manager.
- Deletion/non-deletion of the console area on text console redirection after termination of a console redirection session.

## 2.1 Configuring multisession support, SSH access and console redirection

The following versions of the Operations Manager and the Remote Management Frontend must be present before you can configure the Remote Management Frontend settings described in this section:

- Operations Manager V4.90 or higher
- Remote Management Frontend V4.90 or higher

When you install the Remote Management Frontend, a folder named *Features* is automatically created in the directory

<SV-installation-directory>\ ServerView\ServerView Services\ wwwroot\ RemoteView. In this folder, you can configure whether the following Remote Management Frontend features are made available:

### Multisession support for BMC/ iRMC/ iRMC S2

For each managed PRIMERGY server with iRMC/ iRMC S2 or BMC, it is also possible to open a browser window for power management and console redirection via iRMC/ iRMC S2 or BMC.

Default value: Multisession support for BMC/ iRMC/ iRMC S2 is activated.



Multisession support is always activated for the other interfaces made available by the Remote Management Frontend.

#### – SSH access to the iRMC/ iRMC S2:

In the *ServerView* [*server-name*] window for PRIMERGY servers with iRMC/ iRMC S2, the *iRMC SSH* button for SSH access to the iRMC/ iRMC S2 is displayed (see figure 5 on page 22).

Default value: The *iRMC SSH* button is displayed.

#### Console redirection (SOL) and power management for PRIMERGY servers with iRMC/ iRMC S2:

The corresponding button (*iRMC Power Management*) is displayed in the *ServerView* [*server-name*] window (see figure 5 on page 22).

Default value: The *iRMC Power Management* button for console redirection (SOL) and power management is not displayed.

### Configuring settings in the "Features" folder

You can activate or deactivate the individual features (multisession support, display of certain buttons) by creating or deleting the corresponding text files in the *Features* folder. The content of the text files is irrelevant, i.e. the files can be empty.

The following fixed names must be used for the text files:

**MultiSessionBMC** 

Multisession support for BMC/ iRMC/ iRMC S2 power management and console redirection is activated.

SSHiRMC

The button for SSH access to iRMC/ iRMC S2 is displayed for PRIMERGY servers with iRMC/ iRMC S2.

SOLiRMC

The button for console redirection (SOL) and power management is displayed for PRIMERGY servers with iRMC/ iRMC S2.



### Please note:

- The file names are not case-sensitive.
- The file names must not have any name suffix (.txt).

# 2.2 Deleting/not deleting the console area on text console redirection after the end of a session

When console redirection is performed, the content of the console area is deleted by default following termination of the console redirection session. If the content of the console area is to be retained after the end of the session then you must configure this as follows:

- Depending on the server, open the following files:
  - For servers using Kalypso BMC:

<SV-installation-directory>\ ServerView\ServerView Services\ wwwroot\ RemoteView\ appbmc.conf

 For servers of the type RX/TX600 S1/S2 and servers with iRMC S1/ iRMC S2:

<SV-installation-directory>\ ServerView\ServerView Services\ wwwroot\ RemoteView\ appbmcl.conf

► Set the option *Terminal.clearOnOffline* to "false".

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### 3 Starting the Remote Management Frontend

This chapter describes:

- the requirements that must be fulfilled in order to start the Remote Management Frontend via the Operations Manager.
- how you start the Remote Management Frontend via the Operations Manager and what you need to take account of depending on the status and remote management hardware of the managed server.

You start the Remote Management Frontend via the graphical user interface of the Operations Manager.



The Remote Management Frontend is not listed in the Start menu.



In the case of a PRIMERGY server with installed iRMC/ iRMC S2, you can also call the Remote Management Frontend functionality for this server via the corresponding links in the iRMC/ iRMC S2's web interface (see the manuals "iRMC - integrated Remote Management Controller" and "iRMC S2 - integrated Remote Management Controller").

### 3.1 Requirements

Before you can start the Remote Management Frontend and establish a connection to the managed server, a number of requirements must fulfilled both at the managed server and at the remote workstation.

### 3.1.1 Requirements at the managed server

Depending on whether the Remote Management Frontend accesses the managed server via an iRMC/ iRMC S2, an RSB/ RSB S2/ RSB S2 LP, a BMC or a RemoteView Management Blade, the following requirements must be fulfilled at the managed server:

### – iRMC/ iRMC S2

Both the iRMC/ iRMC S2's LAN interface and text console redirection (via Serial Over LAN) must be configured.



Text console redirection via Serial over LAN (SOL) assumes that the operating system and/or the BIOS use serial port 1 (COM1) for text console redirection.

For detailed information, see the manuals "iRMC - integrated Remote Management Controller" and "iRMC S2 - integrated Remote Management Controller".

### - RSB S2/ RSB S2 LP (3HU)

Access via the Remote Management Frontend to an RSB S2/ RSB S2 LP/ RSB S2 LP (3HU) is only possible if the RSB S2/ RSB S2 LP/ RSB S2 LP (3HU) is operated with firmware version \*29 or higher. The management port of the RSB S2/ RSB S2 LP (3HU) on the managed server should be configured to the default value 3172.



Since the Operations Manager does not know the management port value, the Remote Management Frontend works with the default value.

Since a connection is not automatically established when the Remote Management Frontend is started, you can correct any nonstandard value for the management port after the Remote Management Frontend has been started.

### – BMC

The BMC must be configured for an IPMI-over-LAN connection and console redirection.

#### RemoteView Management Blade

The management port of the RemoteView Management Blade on the managed server should be configured to the default value 3172.



Since the Operations Manager does not know the management port value, the Remote Management Frontend works with the default value.

Since a connection is not automatically established when the Remote Management Frontend is started, you can correct any nonstandard value for the management port after the Remote Management Frontend has been started.

### 3.1.2 Requirements at the remote workstation

The following must be enabled in the web browser:

- Java
- JavaScript

## 3.2 Starting the Remote Management Frontend via the Operations Manager

You start the Remote Management Frontend via the graphical user interface of the Operations Manager.

Proceed as follows:

 Start the Operations Manager (see the manual "ServerView Operations Manager").

The main page of the Operations Manager opens:



Figure 1: ServerView Operations Manager: Start page

On the main page of the Operations Manager, click the link ServerList under the entry "ServerList".

The *ServerList* window is displayed (see figure 2).



Figure 2: Operations Manager: "Server List" window

Access to the Remote Management Frontend varies depending on the Remote Management hardware that is present at the server:

- For managed servers with iRMC/ iRMC S2:

Access via the Operations Manager window (see section "Starting the Remote Management Frontend via an iRMC/ iRMC S2" on page 20).

- For managed servers with RSB/ RSB S2/ RSB S2 LP (3HU) and/or BMC:

Access via the Operations Manager window (see section "Starting Remote Management Frontend via an RSB/ RSB S2/ RSB S2 LP(3HU) or a BMC" on page 25).

 For managed blade servers ( ) with RemoteView Management Blade: Access via the Blade Server View window (see section "Starting Remote Management Frontend via a RemoteView Management Blade" on page 30).

### 3.2.1 Starting the Remote Management Frontend via an iRMC/ iRMC S2

Proceed as follows:

- In the ServerList window (see figure 2 on page 19), click the name of the server which you want to manage with the Remote Management Frontend:
  - If the server can be managed via the Operations Manager (status icon for example ), then the *ServerView* [server-name] window opens (see "Starting the Remote Management Frontend for manageable servers" on page 21).
  - If the server cannot be managed via the Operations Manager but can be accessed via the secondary channel (BMC mode, status icon ), then the *Remote Management* view is opened (see "Starting Remote Management Frontend for servers in BMC mode" on page 24.)

Example:

🕝 RX300S42	🔺 🗊	172.25.92.154	PRIMERGY RX300 S3
🕑 RX3302		172.25,90.75	PRIMERGY RX330 S1

Figure 3: Operations Manager: "ServerList" window (server can be managed / cannot be managed)

#### Starting the Remote Management Frontend for manageable servers

If the server can be managed via the Operations Manager then clicking the server name in the *ServerList* window (see figure 2 on page 19) opens the *ServerView* [*server-name*] window:



Figure 4: ServerView Operations Manager: ServerView [server-name] window

 Under Information/Operation, click Maintenance - Remote Management to go to the Remote Management view.

The Remote Management view is displayed (see figure 5 on page 22).

Chttp://172.25.09.114-3106/171HaAppl FUTSU ROGIOUS42	In a Contract Contrac	(1)
Information/Operation Status B Opriorment Operation Ope	Address Type: primary IP Address: 172.25.89.114 MocAddress: 00199900A/37 Baseboard Management Controller Address Type: baseboard-controller IP Address: 172.25.89.115	(1)
Martennico     Martennico     Martennico     System Evert Log     Server Properties     ASR8     Mod Options     Prencke Management     PhimeCalled     Colline Dispositios     Customer Sett Service     Virtualization	IRMC Veb	(2)

Figure 5: Operations Manager: Remote Management view (server can be managed)

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The remote management buttons (2) are only displayed if, in the *Displayed Data:* box, display of the online data (*Online Data*) (1) has been set.

If the display of the archive data has been set (*Archive Data*) then the buttons are not displayed.



All the supported buttons are displayed in figure 5 (maximum configuration). By default, the *iRMC Power Management* button is not displayed. For detailed information on configuring the buttons, see section "Configuring multisession support, SSH access and console redirection" on page 11. You can click on one of the displayed buttons (except for *iRMC Web*) to start the Remote Management Frontend. The corresponding Remote Management Frontend user interface (*Remote Management* window) is then displayed. The structure and controls of the *Remote Management* window are described in section "The Remote Management Frontend user interface" on page 33.

#### iRMC Telnet

Clicking the *iRMC Telnet* button opens the *Remote Management* window for the Remote Manager (see page 34) and allows you to establish a non-secure Telnet connection to the managed server via iRMC/ iRMC S2 (see page 42).

### iRMC SSH

Clicking the *iRMC SSH* button opens the *Remote Management* window for the Remote Manager (see page 34) and allows you to establish a secure SSH connection to the managed server via iRMC/ iRMC S2 (see page 42).

### iRMC Power Management

Clicking the *iRMC* Power Management button opens the managed server's Remote Management window for text console redirection and power management on the managed server (see page 38).

### iRMC Web

Clicking the *iRMC Web* button starts the iRMC/ iRMC S2 web interface (see the manuals "iRMC - integrated Remote Management Controller" and "iRMC S2 - integrated Remote Management Controller").

#### Starting Remote Management Frontend for servers in BMC mode

If the server cannot be managed via the Operations Manager then clicking the server name in the *ServerList* window (see figure 2 on page 19) immediately opens the following *Remote Management* view:

Attp://172.25.89.114:3169/?ThisAppl 🖉	lication=serverview&Servername=172.25.89.114&ServerName=RX300 - Windows Internet Explorer	
	ServerView Suite	
RX300S42		нер
Information/Operation	Displayed Data: Online: 2008-05-19 17:28:07 💌 Refresh	Cabinet Details \pm
Remote Management	Remote M	Management
our of repends	System LAN	
	Address Type: primary	
	IP Address: 172.25.89.114	
	MacAddress: 0019990DA737	
	Baseboard Management Controller	
	Address Type: baseboard-controller	
	IP Address: 172.25.89.115	
	MacAddress: 001999086288	
	IRMC Telnet IRMC SSH IRMC Power Management	IRMC Web
© Fujitsu Technology Solutions 2009 /		
	🛛 🔽 🔯 🗸 Trusted sites   Protected Mode: Off	🔍 100% 💌 //.

Figure 6: Operations Manager: Remote Management view (server cannot be managed)

For an explanation of figure 6, see the description of figure 5 on page 22.

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## 3.2.2 Starting Remote Management Frontend via an RSB/ RSB S2/ RSB S2 LP(3HU) or a BMC

Proceed as follows:

- In the ServerList window (see figure 2 on page 19), click the name of the server which you want to manage with the Remote Management Frontend:
  - If the server can be managed via the Operations Manager (e.g. status icon 
     icon 
     ), then the ServerView [server-name] window opens (see "Starting the Remote Management Frontend for manageable servers" on page 26).
  - If the server cannot be managed via the Operations Manager but can be accessed via the secondary channel (RSB mode or BMC mode, status icon ), then the *Remote Management* view is opened (see "Starting the Remote Management Frontend for servers in RSB mode/BMC mode" on page 29.)

Example:



Figure 7: Operations Manager: "Server List" window (server can be managed / cannot be managed)

#### Starting the Remote Management Frontend for manageable servers

If the server can be managed via the Operations Manager then clicking the server name in the *ServerList* window (see figure 2 on page 19) opens the *ServerView* [*server-name*] window:



Figure 8: Operations Manager: ServerView [server-name] window

 Under Information/Operation, click Maintenance - Remote Management to go to the Remote Management view.

The Remote Management view is displayed (see figure 9 on page 27).

ะบุĵîтรบ 🎽 🗼	/ S	erverVie	w Suite	E	5
X100531 PRIMERGY RX100 S3	Displayed Data: Online: 2008-04	01 21 04 06 T		Cabinet Details	-
	Capital Carline - 20000	Interest	<u> </u>	Remote Management	-
	estern I AN				
	Address Type	nrimary			
	ID Address:	172 25 92 138			
	MacAddress:	000AE4147225			
nformation/Operation					1
System Status	SB S2 LP				1
Christen	Address Tune	secondary			1
Power Supply	ID Address:	172 26 92 143			
System Board	MacAddrose	002003090992			
Network Interfaces		003003080082			
System Information	RSB Telnet	RSB	Manager		
Agent Information					1
-File Systems	aseboard Management Controller	-			
Partitions	Address Date	baseboard-controller			1
Processes	ID Address	172 25 02 144			
Resources	Macûderose	0004E4147225			
Maintenance Dations information	mocrouness.	000424147225			
System Event Log	BMC Power Management				
Server Properties					1
ASR8R					
PrineCollect					
Customer Self Service					
-Boot Options					
Remote Management					
Virtualization					
Fujitsu Technology Solutions 2009 All ri	ghts reserved				

Figure 9: Operations Manager: Remote Management view (server can be managed)

The remote management buttons are only displayed if, in the *Displayed Data:* box, the display of the current data (*Online Data*) has been set (1).

If the display of the archive data has been set (*Archive Data*) then the buttons are not displayed.

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figure 9 on page 27 illustrates the *Remote Management* view for a PRIMERGY server which contains both a BMC and an RSB S2 LP.

In the case of PRIMERGY servers which possess only an RSB/ RSB S2/ RSB S2 LP (3HU) but no BMC, only the buttons *RSB Telnet* and *RSB Manager* are available. (2)

In the case of PRIMERGY servers which possess only a BMC but no RSB/ RSB S2/ RSB S2 LP (3HU), only the *BMC Power Management* button is available. (3)

You can click on one of the displayed buttons (except for *RSB Manager*) to start the Remote Management Frontend. The corresponding Remote Management Frontend user interface (*Remote Management* window) is then displayed. The structure and controls of the *Remote Management* window are described in section "The Remote Management Frontend user interface" on page 33.

#### RSB Telnet

Clicking the *RSB Telnet* button opens the *Remote Management* window for the Remote Manager (see page 34) and allows you to establish a non-secure Telnet connection to the managed server via RSB/ RSB S2/ RSB S2 LP(3HU) (see page 42).

#### RSB Manager

Clicking the *RSB Manager* button starts the web interface of the RSB/ RSB S2/ RSB S2 LP (3HU).

#### BMC Power Management

Clicking the *BMC* Power Management button opens the managed server's Remote Management window for text console redirection and power management (see page 38).

### Starting the Remote Management Frontend for servers in RSB mode/BMC mode

If the server cannot be managed via the Operations Manager then clicking the server name in the *ServerList* window (see figure 2 on page 19) immediately opens the following *Remote Management* view:

Chttp://172.25.89.118:3169/?ThisAppli	cation=serverview&Servername=172.2	25.89.91&5erverName=172.	25 - Windows Internet Explorer	
🔞 Protected mode is currently turned off for t	he Internet zone. Click here to open security:	settings.		×
		erverView	Suite	
		diverview	ounce	
172.25.89.91				Help
Information/Operation	Displayed Data: Online: 2008-04	I-01 21:35:51 💌 Refresh		Cabinet Details 🛨
Server Properties			Re	mote Management
·				
	Address Type:	primary		
	IP Address:	172.25.90.20		
	MacAddress:			
	Baseboard Management Controller			
	Address Type:	baseboard-controller		
	IP Address:	172.25.89.91		
	MacAddress:	003005476592		
	BMC Power Management			
© Fujitsu Technology Solutions 2009 A	Il rights reserved			
😻 Views are loaded.			V Trusted sites   Protected Mode	Off 🔍 100% 🔹 //

Figure 10: Operations Manager: Remote Management view (server cannot be managed)



For an explanation of figure 10, see the description of figure 9 on page 27.

### 3.2.3 Starting Remote Management Frontend via a RemoteView Management Blade

Proceed as follows:

In the ServerList window (see figure 2 on page 19), click the name of the blade server ( ) that you want to manage with the Remote Management Frontend

ServerView [8X600-4] - Windows I	nternet E	eplorer					
FUĴÎTSU 🥍 🦄	1	-	-	Server	View Su	ite	
BX600-4							Help
E BX600	0	Displayed	Data: Onli	ne: 2008-06-13 14:52:38 ¥	Refresh	Locate	Cabinet Details 🛨
							Blade List
ALC: UNITED IN COLUMN		Type/ID	8	Status/Conditions	Model		
a man	a	1	1	ok	PRIMERGY BX6	00 Management Blade S	3
	C	6	2	standby	PRIMERGY BX8	00 Management Blade S	3
No.	0	EE.	1	ok	BX600 GbE Inte	ligent Blade Panel 10/6	
	C	100	2	ok	BX600 GbE Inte	ligent Blade Panel 10/6	
Information/Operation     BladeServer Status	c		1	ok 🕜	D2571		
Convironment	Dete	ils of the S	elected Bl	ade			
Fower supply     Filade List			Type:	Mgmt	Physical Address	001824932505	
System		Manu	facturer:	FSC	Hardware Version	0C	
System Information		Manufact	ure Date:	10/16/2007 17:53:00	Firmware Version	3.04	
Server Properties		Serial	Number:	sq741lu00031	IP Address	172.25.251.144	
Remote Management Teinet			Board Id:	A3C40089221	Operating System		
							1
							Configure ServerView
© Fujitsu Technology Solutions 2009	All rights						
						Local intrane	t 🕅 💐 100% 🔹 🖉

The *Blade Server View* [*server-name*] window opens:

Figure 11: Operations Manager: Blade Server View [server-name] window

 Under Information/Operation, choose Maintenance - Remote Management Telnet to start the Remote Management Frontend.

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The *Remote Management Telnet*-Link is only activated if, in the *Displayed Data:* box, display of the online data (*Online Data*) (1) has been set. If the display of the archive data has been set (*Archive Data*) then the *Remote Management Telnet*-Link is not activated.

It is only possible to establish a Telnet/SSL connection to a RemoteView Management Blade with a firmware version less than S3 if the Remote Management Frontend is installed on a Windows system and the web browser is also running on a Windows system. The Remote Management Frontend and the web browser can run on different Windows systems.

This restriction does not apply to Management Blades S3.

The *Remote Management* window for the Console Menu application is opened (see page 34). Here, you can open a non-secure Telnet connection to a blade server via RemoteView Management Blade. For more information, see the manual "PRIMERGY BX Blade Server Systems - RemoteView Management Blade".

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### 4 Working with the ServerView Remote Management Frontend

This chapter describes:

- The structure of the Remote Management Frontend user interface and the components which are displayed when the Remote Management Frontend is started via the Operations Manager.
- The procedure for establishing a connection to the managed server via the Remote Management Frontend interface.

## 4.1 The Remote Management Frontend user interface

The Remote Management Frontend user interface (*Remote Management* window) is displayed in a browser window without a menu bar.

There are two variants of the Remote Management window:

- Variant for the Remote Manager and Console Menu application:

The Remote Manager is an alphanumeric user interface for the remote management of PRIMERGY servers with iRMC/ iRMC S2 or RSB/ RSB S2/ RSB S2 LP (3HU).

The Console Menu application is an alphanumeric user interface for the remote management of blade servers with RemoteView Management Blade.

 Variant for text console redirection and power management of the managed server via iRMC/ iRMC S2 or BMC.

### 4.1.1 Remote Management window for Remote Manager and Console Menu

The following section describes the components of the *Remote Management* window for the Remote Manager (iRMC/ iRMC S2, RSB/ RSB S2/ RSB S2 LP (3HU)) and the Console Menu application (RemoteView Management Blade).



The structure of the *Remote Management* window is identical for the Telnet and SSH-based Remote Manager and for the Console Menu application. The only differences relate to the displayed port numbers: 3172 (Telnet port) and 22 (SSH port, only for a connection to iRMC/ iRMC S2).

ม)์ทรม	ServerView Suite
IP Address 172.25.89.19	Management Port 3172 Connect Connect Connect
	- Console area
Not connected.	Status bar

igure 12: Remote Management window for Remote Manager and Console Menu application

### Online help

► To call the Remote Management Frontend help function, click *HELP*.

The Remote Management Frontend help function provides you with detailed information on:

Overview

An overview containing introductory information

Remote Management

Information on Telnet/SSH-based remote management

About

Version information relating to Remote Management Frontend

### **Connection bar**

The Remote Management Frontend connection bar contains the following displays and controls:

IP Address	IP address of the iRMC/ iRMC S2 or RSB/ RSB S2/ RSB S2 LP (3HU) or RemoteView Management Blade.
	The Remote Management Frontend takes over the IP address from the Operations Manager. You can overwrite the IP address. You can enter up to 20 characters.
Management Port	Management Port of the iRMC/ iRMC S2 or RSB/ RSB S2/ RSB S2 LP (3HU) or RemoteView Management Blade.
	The Remote Management Frontend cannot take over the Management Port from the Operations Manager. The default setting is 3172 (for Telnet connections) or 22 (for SSH connections). You can overwrite the management port. You can enter up to 4 characters.
Connect	This button allows you to start a connection to the iRMC/ iRMC S2 or RSB/ RSB S2/ RSB S2 LP (3HU) or RemoteView Management Blade (see page 42).

Table 2: Remote Management window (Remote Manager) - connection bar

Disconnect	You click this button to terminate a connection to the iRMC/ iRMC S2 or RSB/ RSB S2/ RSB S2 LP (3HU) or RemoteView Management Blade.
	You can use the <i>Connect</i> and <i>Disconnect</i> buttons to terminate and re-establish the connection to the managed server as often as you want without having to leave the window.

Table 2: Remote Management window (Remote Manager) - connection bar

### Console area

Once you have established a connection to the iRMC/ iRMC S2 or RSB/ RSB S2/ RSB S2 LP (3HU) or RemoteView Management Blade (see page 42), the corresponding Telnet application is opened in the console area:

- for iRMC/ iRMC S2: Remote Manager (Telnet / SSH) (see the manuals "iRMC - integrated Remote Management Controller" and "iRMC S2 - integrated Remote Management Controller").
- for RSB/ RSB S2/ RSB S2 LP (3HU): Remote Manager (Telnet).
- for a RemoteView Management Blade: Console Menu application.

### Status bar

The Remote Management Frontend status bar contains the following displays and controls:

Connected to <ip address&gt; <management port=""></management></ip 	A left-aligned string indicates the status of the connection, the IP address and the port number of the iRMC/ iRMC S2 or RSB/ RSB S2/ RSB S2 LP (3HU) or the RemoteView Management Blade.
<connection status=""></connection>	A right-aligned string indicates the status of the connection:
	- offline (on a red background)
	- online (on a green background)
	<ul> <li><i>online SSL</i> (on a green background) indicates an SSL Telnet connection</li> </ul>
	<ul> <li><i>online SSH</i> (on a green background) indicates an SSL connection</li> </ul>

Table 3: RemoteView Frontend window (Remote Manager) - status bar

## 4.1.2 Remote Management window for text console redirection and power management

The components of the *Remote Management* window for text console redirection and power management via iRMC/ iRMC S2 or BMC are described below.

	Online help
ServerView Remote Management Frontend [172:25:250.158];55H - Windows Internet Explorer  FUJITSU ServerView Sui	te Help
BMC (FVV 3 23A)     IP Address     172 25.250.65     Logon     Logoff       Power Management:     Status     Power On     Command     Image: Command       Console Redirection:     Enter Console     Leave Console	
Connected to 172.25.250.56 623	
Applet Ser rerView Remote Management Frontend 4:07:00 s arted	net 🕅 100% 🔻 🥖
Console redirection bar Status bar Console area	ction bar
Console redirection bar Status bar Console area Power management bar Conne	ction bar

Figure 13: Window for power management and text console redirection

### Online help

► To call the Remote Management Frontend help function, click *HELP*.

The Remote Management Frontend help function provides you with detailed information on:

Overview

An overview containing introductory information

Remote Management

Information on Telnet/SSH-based remote management

About

Version information relating to Remote Management Frontend

### **Connection bar**

The Remote Management Frontend connection bar contains the following displays and controls:

BMC (FW: <version>)</version>	Display of the status of the connection to the iRMC/ iRMC S2/ BMC:
	The display has a colored background:
	gray: There is no connection to an iRMC/ iRMC S2/ BMC.
	green: There is a connection to an iRMC/ iRMC S2/ BMC.
	If a connection has been successfully established then the firmware version of the connected iRMC/ iRMC S2/BMC is also displayed.
IP Address	IP address of the iRMC/ iRMC S2/BMC.
	The Remote Management Frontend takes over the IP address from the Operations Manager. Once a connection is established, this box becomes inactive.
Logon	You click this button to start a connection to the iRMC/ iRMC S2/BMC (see page 49).

Table 4: Remote Management window - connection bar

Logoff	You click this button to terminate a connection to the iRMC/ iRMC S2/BMC.
	You can use the <i>Logon</i> and <i>Logoff</i> buttons to terminate and re-establish the connection to the managed server as often as you want without having to leave the window.

Table 4: Remote Management window - connection bar

### Console area

The console area contains the display from the redirected console. In the console area, you can also enter SAC commands if a Windows system with an activated Emergency Management Services (EMS) is booted.

### **Console redirection bar**

You use the *Enter Console* and *Leave Console* buttons in the console redirection bar to start or terminate a console redirection session.

### Status bar

The Remote Management Frontend status bar contains the following displays and controls:

Connected / Not connected	A left-aligned string indicates whether or not a connection exists.
<connection status=""></connection>	A right-aligned string indicates the status of the console redirection:
	- offline (on a red background)
	<ul> <li>online (on a green background)</li> </ul>

Table 5: RemoteView Frontend window - status bar

#### Power management bar

The power management bar provides information on the power status of the managed server. You can update the display by clicking the *Status* button.

The *Command* drop-down list allows you to select and run the following IPMI commands for power management of the managed server.

IPMI command	Explanation
Power On	Switches the server on.
Power Off	Switches the server off.
Reset	Completely restarts the server (cold start), regardless of the status of the operating system.
Power Cycle	Powers the server down completely and then powers it up again after approximately 5 seconds.
Shutdown	Graceful shutdown and power off.



You can also use the *Command* drop-down list to start the power management of the managed server even if no console redirection session is active.

## 4.2 Establishing a connection to the managed server

This section describes how you establish the connection to the managed server both in the *Remote Management* window for the Remote Manager and in the *Remote Management* window for console redirection and power management.

### 4.2.1 Establishing a connection to the iRMC/ iRMC S2, RSB S2/ RSB S2 LP (3 HU) via Telnet/SSH (Remote Manager)

**i** The Remote Management Frontend takes over the IP address of the iRMC/ iRMC S2, RSB/ RSB S2/ RSB S2 LP (3HU) / RemoteView Management Blade from the Operations Manager.

The use of Remote Manager for the iRMC/ iRMC S2 is described in the manuals "iRMC - integrated Remote Management Controller" and "iRMC S2 - integrated Remote Management Controller".

### Requirements at a managed server with iRMC/ iRMC S2

Access via Telnet must be enabled for the iRMC/ iRMC S2 (see manuals "iRMC - integrated Remote Management Controller" and "iRMC S2 - integrated Remote Management Controller").



Access via the Telnet protocol is deactivated by default for security reasons, as passwords are transmitted in plain text.



Maximum number of parallel Telnet/SSH sessions in the case of connection via an iRMC/ iRMC S2:

- Telnet: up to 4
- SSH: up to 2
- Telnet and SSH in total: up to 4

#### Requirements at a managed server with RSB S2 /RSB S2 LP (3 HU)

- The framework vehicle of the RSB S2/ RSB S2 LP (3HU) must be 6.4.57.29 or higher.
- Access via Telnet must be activated via RSB S2/ RSB S2 LP (3HU).



Since the Operations Manager does not know the management port value, the Remote Management Frontend works with the default value.

Since a connection is not automatically established when the Remote Management Frontend is started, you can correct any nonstandard value for the management port after the Remote Management Frontend has been started.



Maximum number of parallel Telnet sessions for a connection via an RSB S2/RSB S2 LP (3 HU) (with firmware version 7.0 or higher): maximum 4

### Establishing a Telnet/SSH connection and logging into the Remote Manager

**i** The example below describes the establishment of Telnet/SSH connection to the managed PRIMERGY server via an iRMC/ iRMC S2. The establishment of a Telnet connection to a PRIMERGY server via an RSB/ RSB S2/ RSB S2 LP (3HU) is very similar.

Proceed as follows:

► In the Operations Manager *Remote Management* view, click the *iRMC Telnet* or *iRMC SSH* button:



Figure 14: Operations Manager: Remote Management view - starting Remote Manager

The Java applet for the Telnet or SSH connection is started and the *Remote Management* window is displayed (here we use the example of an SSH connection, see figure 15 on page 45).



If the screen displays for SSH and Telnet connections differ only with respect to the connection-specific information displayed, the display for an SSH connection is shown below.



Figure 15: Establishing an SSH connection to the iRMC/ iRMC S2

► In the connection bar, click *Connect*.



If the connection attempt fails, then this may be due to the fact that the management port number at the managed machine is not 3172 (Telnet) or 22 (SSH).

The management port number is not known to the Operations Manager and the Remote Management Frontend therefore uses the default value (3172 for Telnet connections or 22 for SSH connections).

As soon as the connection to the iRMC/ iRMC S2 has been established, you are requested to enter the user name and password.

- Logging into the Remote Manager over an SSH connection



If the host key of the managed server is not yet registered at the remote workstation, the SSH client issues a security alert with suggestions on how to proceed.

The following login window is displayed:

🕌 ServerView Remote Manage	ement Frontend SSH Logon at 172.25.89.19	×
<u>U</u> sername:	admin	
Password:	••••	
<u>L</u> ogin	Cancel	

Figure 16: SSH connection: Logging in to the Remote Manager

Enter your user name and password and confirm your entries by clicking Login.

The main menu of the Remote Manager is then displayed (see figure 18 on page 48).

- Logging into the Remote Manager over a Telnet connection

The Remote Manager login window is displayed:



Figure 17: Telnet connection: Logging in to the Remote Manager



Depending on whether ServerView agents have already been started at some point on the system, the login window is shown with or without system information.

 Enter your user name and password and confirm your entries by pressing <u>Enter</u>.

The main menu of the Remote Manager is then displayed (see figure 18 on page 48).



Figure 18: Main menu of the Remote Manager

### **Closing a Telnet/SSH connection**

Close the connection to the Remote Manager by clicking the *Disconnect* button in the connection bar of the Remote Management window or by pressing the O key in the main menu of the Remote Manager (see figure 18).

The window remains open after the connection has been closed.

### 4.2.2 Establishing a connection to the iRMC/ iRMC S2/BMC for power management and console redirection

The example below illustrates the establishment of a connection to an iRMC/ iRMC S2 which permits power management and console redirection for the managed server. A connection to a BMC is established in a very similar way.

Proceed as follows:

i

► In the Operation Manager *Remote Management* view, click the *iRMC Power Management* button.

/ http://172.25.89.118:3169/?ThisAppli	cation=serverview&Servername=172.25.89.18&ServerName=TX1505 - Windows Internet Explorer	
Protected mode is currently turned off for t	e Internet zone. Click here to open security settings.	
FUITSU	ServerView Suite	
TV150S62	Gerverview Guite	Male
1A10002		ran p
PRIMERGY TX150 S6	🔮 Displayed Data: Online: 2008-05-01 16:27:18 💌 Refresh 💿 Locate	Cabinet Details 🛨
	Remote	Management
	System LAN	
	Address Type: primary	
	IP Address: 172.25.89.18	
80	MacAddress: 00300558DD09	
	Baseboard Management Controller	
	Address Type: baseboard-controller	
Information/Operation	IP Address: 172.25.89.19	
System Information	MacAddress: 00199908D250	
-Agent Information	IRMC Telnet IRMC SSH IRMC Power Management	IRMC Web
File Systems		
- Derating System		
Processes		
Resources		
Maintenance		
Battery Information		
System Evers Log Server Properties		
-ASR8R		
PrimeCollect		
Online Diagnostics		
Root Ontions		
Remote Management		
© Fujitsu Technology Solutions 2009 A	rights reserved	
🕖 Views are loaded.	Trusted sites   Protected Mode: Off	• 100% • //

Figure 19: Operations Manager: Remote Management view -Starting power management and console redirection

The Java applet for power management and console redirection is started and the *Remote Management* window is displayed (figure 15 on page 45).

C ServerView Remo	ote Management Fronte	nd [172.25.25	).158]:55H - Winde	ows Inte	rnet Explorer			- 🗆 🗡
ELIÚITELL		1		<b>C</b> -		liaur	C	•
FUJIISU				se	rverv	lew	Suit	e
								Help
					_	1		
BM	C (FW:)	IP Address	172.25.92.155		Logon	Logoff	_	
P	ower Management:	Status	<not available=""></not>		Command	1	× 1	
C	onsole Redirection:				Enter Consola	E Leave Con	sole	
							<b>_</b>	
							-	
No	t connected.				(	Console: off	line	
© Fujitsu Technol	ogy Solutions 2009 All i	rights reserved						
Applet ServerView Remo	ote Management Frontend 4	07.00 started		Ţ		Local in	tranet 🛛 🔩 1	00% • //.

Figure 20: Logging on to the iRMC/ iRMC S2

► Click the *Logon* button to log in to the iRMC/ iRMC S2.

You are then prompted to enter your iRMC/ iRMC S2 user name and password (see figure 21 on page 50):

Her	emame:			 -	
<u>∑</u> \$4	emane.				
Pas	ssword:			_	
1000	Street and the	1	12142-00015		

Figure 21: Power management and text console redirection - Login window

• Enter your user name and password and click *Login* to confirm.

The window for power management and text console redirection is then displayed:

	ment Frontend [172:25:250.158]:55H - W	Indows Internet Explorer ServerView Suite	
BMC (FW, 3.2 Power Mana Console Re	IA) IP Address 172.25.250.6 gement: Status Power On direction:	6 Logon Logoff Command Enter Console	(1)
		Ê	
Not connected	l.	Console: offline	(2)
Applet ServerView Remote Manageme	int Frontend 4.07.00 started	Local intranet t, 100%	• //

Figure 22: Window for power management and text console redirection

The connection to the iRMC/ iRMC S2 is established and the commands for the power management of the managed server can be activated (1). However, the server console is still offline (2).

• Click *Enter Console* to start the console redirection session.



If you access the managed server via a Kalypso BMC, you will be asked (by the Kalypso BMC's Telnet server) to enter your user name and password again in order to start the console redirection session.

You are then connected to the console and can execute the required command, either by entering it directly in the console area or by clicking it in the *Command* drop-down list (IPMI commands only):

BMC (FW: 3.28A)	IP Address	172.25.92.155	Logon	Logof	Ť
Power Management:	Status	Power On	Command	Shutdown	-
Console Redirection:			Enter Console	Davis on	
Shutdown Enter SAS or I (No confirmatio	PMI comma on prompt!)	nd directly.	1	Power On Power Off Reset Power Cycle Shutdown	
		or			
		Select IPM click.	I command a	and	
		ServerView Remote Mar	agement Frontend	172.25 🗙	
		Po you really v	vant to Shut Down t	he server ?	
		Ye	s No		
					-
Connected to 172.25.92.1	155		Ci	onsole: or	iline

Figure 23: Entering SAC or IPMI commands at the console.

- ► To close the connection to the console, click *Leave Console*.
- ► To close the connection to the iRMC/ iRMC S2, click *Logoff*.

### 5 Security

### 5.1 Password protection

To prevent unauthorized remote access to a server, the PRIMERGY ServerView Suite possesses password protection mechanisms. There are two types of password that you need for the Remote Management Frontend:

- Password for the ServerView Web server
- Passwords for the remote hardware

### Password for the ServerView Web server

To log on at the ServerView web server, you need the Operations Manager user password (see manual "PRIMERGY ServerView Suite ServerView Operations Manager Installation").

#### Passwords for the remote hardware:

You may need the following passwords depending on the remote hardware you are using:

iRMC/ iRMC S2 passwords

You can define multiple user identifications, each with individual passwords and rights for each iRMC/ iRMC S2 (see the manuals "iRMC - integrated Remote Management Controller" and "iRMC S2 - integrated Remote Management Controller").

- RSB S2/ RSB S2 LP passwords

You can define multiple user identifications, each with individual passwords and rights for each RSB S2/ RSB S2 LP.

RSB passwords

For each RSB you can define multiple user identifications, each with individual passwords and rights.

### - RemoteView Management Blade passwords

For each RemoteView Management Blade you can define multiple user identifications, each with individual passwords and rights.

Remote IPMI passwords
 For each **BMC** you can define multiple user identifications, each with individual passwords.

### 5.2 Console redirection

Kalypso BMC:

The Telnet packages sent from the ServerView Remote Management Frontend are packaged in RMCP data packages.

The BMC replies with Telnet data packages.

- iRMC/ iRMC S2, BMC of RX/TX600 S2/S3

Console redirection is encrypted and takes place Serial Over LAN (SOL)

### **Related Publications**

The documentation for the PRIMERGY manuals can be found on the PRIMERGY 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 on the Internet at *http://manuals.ts.fujitsu.com* under the link *Industry standard servers*.

- [1] ServerView Suite Basic Concepts
- [2] PRIMERGY Glossary
- [3] **PRIMERGY Abbriviations**
- [4] Secure PRIMERGY Server Management Enterprise Security PRIMERGY server management for secure, highly available platforms White Paper
- [5] PRIMERGY ServerView Suite Installation Manager User Guide
- [6] PRIMERGY ServerView Suite Deployment Manager User Guide
- [7] **PRIMERGY ServerView Suite ServerView Operations Manager** Installation under Windows Installation Guide
- [8] **PRIMERGY ServerView Suite ServerView Operations Manager** Installation under Windows Quick Installation Guide

- [9] **PRIMERGY ServerView Suite ServerView Operations Manager** Installation under Linux Installation Guide
- [10] **PRIMERGY ServerView Suite ServerView Operations Manager** Installation under Linux Quick Installation Guide
- [11] PRIMERGY ServerView Suite ServerView S2 ServerView Agents (Linux, VMware) Quick Installation Guide
- [12] PRIMERGY ServerView Suite ServerView Operations Manager Server Management User Guide
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- [30] PRIMERGY ServerView Suite ServerView Integration Overview
- [31] PRIMERGY ServerView Suite ServerView Integration in MOM User Guide
- [32] PRIMERGY ServerView Suite ServerView Integration Pack for MS SCOM User Guide
- [33] PRIMERGY ServerView Suite ServerView Integration Pack for MS SMS User Guide
- [34] PRIMERGY ServerView Suite DeskView and ServerView Integration Pack for Microsoft SCCM User Guide
- [35] PRIMERGY ServerView Suite ServerView Integration in HP OpenView NNM User Guide
- [36] PRIMERGY ServerView Suite ServerView Integration in HP Operations Manager User Guide
- [37] PRIMERGY ServerView Suite ServerView Integration Pack in Tivoli NetView User Guide
- [38] PRIMERGY ServerView Suite ServerView Integration Pack in Tivoli TEC User Guide

- [39] PRIMERGY ServerView Suite ServerView Integration in DeskView User Guide
- [40] PRIMERGY ServerView Suite ServerView Remote Management Frontend User guide
- [41] PRIMERGY ServerView Suite iRMC - integrated Remote Management Controller User Guide
- [42] PRIMERGY ServerView Suite iRMC S2 - integrated Remote Management Controller User Guide
- [43] PRIMERGY BX300 Blade Server Systems Operating Manual
- [44] **PRIMERGY BX600 Blade Server Systems** Operating Manual
- [45] PRIMERGY BX600 Blade Server Systems ServerView Management Blade S3 User Interface Description User Guide
- [46] PRIMERGY BX900 Blade Server Systems Operating Manual
- [47] PRIMERGY BX900 Blade Server Systems ServerView Management Blade S1 User Interface Description User Guide
- [48] PRIMERGY Blade Server System LAN Switch Blade User Interface Description User Guide
- [49] **BIOS-Setup** Description

- [50] **PRIMEPOWER ServerView Suite** System Administration within a Domain User Guide
- [51] FibreCAT CX Monitoring FibreCAT SX systems with ServerView Operations Manager Welcome Guide
- [52] FibreCAT SX Monitoring FibreCAT SX systems with ServerView Operations Manager Welcome Guide
- [53] **StorMan** Provisioning and managing virtualized storage resources Administrator and User Guide
- [54] APC network management card User's Guide
- [55] VMware VMware ESX Server Installation Guide
- [56] VMware VMware ESX Server Administration Guide

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http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

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