

Fujitsu Server BS2000 SE Series

# Quick Guide

User Guide

Valid for: M2000 V6.3A X2000 V6.3A HNC V6.3A

Edition December 2019

## Comments... Suggestions... Corrections...

The User Documentation Department would like to know your opinion on this manual. Your feedback helps us to optimize our documentation to suit your individual needs.

Feel free to send us your comments by e-mail to: bs2000services@ts.fujitsu.com.

## Certified documentation according to DIN EN ISO 9001:2015

To ensure a consistently high quality standard and user-friendliness, this documentation was created to meet the regulations of a quality management system which complies with the requirements of the standard DIN EN ISO 9001:2015.

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The Linux-based basic software M2000, X2000, and HNC which is installed on the Management Unit, Server Unit x86, and HNC contains Open Source Software. The licenses for this can be found in the LICENSES directory on the relevant installation DVD.

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## **Quick Guide**

## **1** Introduction

With the FUJITSU Server BS2000 SE Series (SE servers), FUJITSU offers a server infrastructure which consists of two server lines.

Depending on requirements, an SE server contains all the system components needed for operation as an overall application:

- /390-based BS2000 Server Unit
- x86-based Server Units with BS2000 guest systems, SU300 also with Linux or Windows guest systems as an option
- x86-based Application Units for operation under e.g. Linux, Windows or VMware
- Shareable tape and disk periphery
- A high-speed, server-internal infrastructure to connect the components with each other and with the customer LAN or SAN.

#### Information on using the Quick Guide

This Quick Guide is intended for people who operate an SE server and contains short instructions for the most important scenarios when placing the SE server in service. The following requirements should be met:

- Customer Support provides the customer with the SE server.
- The desired BS2000 operating mode is set on each Server Unit.
- A BS2000 system is configured and fully operational.
- All necessary BS2000 devices are configured.

#### Please note the following:

The base system of the MU (M2000) as well as the iRMC of the MU have a predefined administrator account *admin* at the time the SE server is delivered. In both cases an initial password is preset, which you can ask for at the service.

Change the password immediately after you have logged in for the first time. You may also change the validity time and the other password attributes.

You can access the password management as follows:

- in SE Manager: Authorizations -> Users -> Password management
- on the iRMC S4: User management -> iRMC S4 users
- on the iRMC S5 (with MU M3): Settings -> User Management -> iRMC Local user accounts

A detailed description of the SE Manager's functionality with the usage of the base software (M2000/X2000/HNC) V6.3A is included in the "Operation and Administration" manual and in the SE Manager's online help.

## 2 Calling the SE Manager

This chapter contains the following topics:

- How do I log in on the SE Manager?
- How do I log out of the SE Manager?
- How do I power on a Management Unit via the local console?
- How do I power on a Management Unit via iRMC?

## 2.1 How do I log in on the SE Manager?

#### Requirement

A Management Unit is powered on. It might be necessary to power on a Management Unit (MU) first, to make the access to the SE Manager possible (see "How do I power on a Management Unit via the local console?" or "How do I power on a Management Unit via iRMC?").

If IP-based access rights are configured for accessing the SE server, the IP address of the PC must have a permission.

#### Procedure

Enter the FQDN (Fully Qualified Domain Name) or IP address of the active MU into the address bar of the browser and press enter:



If the browser now displays a warning about the security certificate, click *Continue to this website*. The procedure for confirming or importing a certificate is described in more detail in the "Administration and Operation" user guide in section "Confirming/importing a certificate in the web browser".

The connection is established and the login window opens:

SE Manager				FUJI๊กรม
Management Unit		_	DE	Help
	-			
	Login			
	System: abgse1mu1.example.net Please log in with your user account and password.			
	Account			
	Password			
	Log in			

- The login window is also displayed to permit you to log in again if you have logged out or the session was terminated owing to inactivity.
- > Enter your account and the respective password in the login window.
  - Change the initial password for the account *admin* immediately after the first login (see also information in chapter "Introduction").

#### > Click Log in.

The *Dashboard* tab opens as the welcome page. It provides a quick overview of the systems, Units or Units /Partitions, IP networks, FC networks, Storage, Cluster, Users, and Events of the SE server.

## 2.2 How do I log out of the SE Manager?

### Logging out explicitly

> In the header area of the SE Manager main window click *Log out* to terminate the session:

🛔 co admin 🗸	Log out	FUJเ้ทรม
	DE	Help

You will then be forwarded to the login window (for logging in again).

#### Logging out because of a session timeout

If you do not log out explicitly, the session terminates if there is no activity for 20 minutes, i.e. if the SE Manager registers no activity in this time. The default session timeout is set to 20 minutes and can be changed individually:

In the header area of the SE Manager's main window click on the arrow next to the login name and then, in the drop down list, click *Individual settings* to display the dialog for changing the session timeout:



When you want to start an activity in the SE Manager after a session has timed out, first the login window appears, and you must log in again. Only after you have done this will the activity be executed.

When you close the browser window without logging out, then your session remains valid until session timeout. This means that when calling the MU start address again, you will not be prompted to login. Instead, the last opened page of the SE Manager is displayed again.

## 2.3 How do I power on a Management Unit via the local console?

#### Requirement

You are on the server rack of the SE server.

#### Procedure

- > Open the server rack
- > Pull out the tray with the local console and flip up the screen
- > Press the power-on button on the MU
  - By default the local console is attached to the MU. If the connection is attached to the Server Unit, switch over to the MU using the console switch menu (press the HOT KEY to call it).

The MU powers itself on and starts up. The startup messages are output on the local console. As soon as the system is ready, you receive the login request.

- > Enter account and password of an administrator account
- When the SE server is supplied, an initial password is set for standard account *admin*, which can be requested at the service. If it has already been changed (or you are using a different account), you must enter the current password (see also section "How do I log in on the SE Manager?").
- > Click Login

After a successful login the Gnome Desktop is loaded.

> Click *Computer* in the task bar (bottom left), to open the application menu:



- > Double-click the Firefox icon to open the browser.
- Enter *localhost* into the address bar of the browser (or alternatively the FQDN of the powered-on MU) and press enter:



As soon as the login window is displayed, the login to the SE Manager can be performed (see "How do I log in on the SE Manager?").

## 2.4 How do I power on a Management Unit via iRMC?

#### Requirement

The iRMC (integrated Remote Management Controller) of the Management Unit is accessible.

#### Procedure

- > Open a browser window on the administrator PC.
- > Enter the IP address of the iRMC of the MU.

If the browser now displays a warning about the security certificate, click *Continue to this website*.

The login window of the iRMC is displayed in the browser:

	FUĴĨTSU
FUJITSU ServerView	
iRMC S5 Web Server	
Username	
Username Password	

> Enter the iRMC account *admin* (or another administrator account) as *Username* and the current password and click *Login*.

Change the initial password for the iRMC account *admin* immediately after the first login (see also information in chapter "Introduction").

After a successful login the browser window displays the *System Overview* of the iRMC's graphical user interface. The *Power Status Summary* group shows that the MU is shut down.

iRMC S5 Web Server			⊕ Language ∨	<u>*</u> ad	min ~	Help 🛩	10	FUITS	,
System Logs	Tools Settings		äB					Ċ	1
System Board									
O Power	Overview			_	_			_	
Cooling	<ul> <li>System Information</li> </ul>								
Mass Storage	Model Name	SE SERVER MU M3							
Software	Chassis Type	RX2530M5R2							
	Serial Number	YMLU001055							
Network:	Asset Tag	System Asset Tag							
Als Connect	System GUID	0498F38F-7652-11E9-927C-E3223692FB36							
	BIOS Version	V5.0.0.14 R1.15.0 for D3383-B1x							
	~ Operating System (OS) Informatio								
	· System Board Information								
	× Power Status Summary								
	Power Status	Powered Off							
	Power On Counter	3 months 25 days 19 hours 45 minutes							
	Last Power On Reason	Remote control via Remote Manager							
	Last Power Off Reason	Remote control via Remote Manager							
	~ Running iRMC Firmware								
Model Name: SE SERVER MU M3	* Active Sessions Information								
Host Name: 055ie1mu2 Asset Tag: System Asset Tag	Installed License Keys								

i

> Click on the Launch AVR icon in the upper right corner and then on Start Video Redirection.

iRMC S5 Web Se	erver		🕲 Language 🗸 🚊 admin 🗸	Help - FUITSU
System	Logs	Tools Settings	# <b>D</b>	ID 🖾 🛆 🙂
System Board				Start Video Redirection
O Power		Overview		
Cooling		<ul> <li>System Information</li> </ul>		

If the browser now displays a warning about the security certificate, click *Continue to this website*.

A window opens to display the console. As the MU has not yet been powered on, the console window is empty.

> In the iRMC window, click on the System power button icon in the upper right corner and then on Power on.

iRMC S5 Web S	erver			Danguage 🗸	🚊 admio 🛩	Help 🛩	คปู่กรบ
System	Logs	Tools	Settings	68		DB	@ ₺
System Board		[				Power	On
O Power		Overview					_
Cooling		~ System inform	ition				

> Answer the question Are you sure that you want to perform this action? by clicking Yes.



The MU powers itself on and starts up. Some minutes will pass before it is possible to log in on the SE Manager. In the console window, the appearance of a login request indicates that the system has started up.

> Close the console and log out from the iRMC Web GUI.

For logging in on the SE Manager see "How do I log in on the SE Manager?".

## 3 Powering on, starting up BS2000, powering off

The description is divided into the following sections:

- How do I power on Server Units and other units via the SE Manager?
- How can I boot the BS2000 on an SU /390?
- How can I boot the BS2000 on an SU x86?
- How can I boot the BS2000 via the SE Manager? (Quick Guide, #11a)
- How do I open or close a BS2000 dialog?
- How do I open a BS2000 console?
- How can I shut down the BS2000 via the BS2000 console?
- How do I power off Server Units and other Units?

### 3.1 How do I power on Server Units and other units via the SE Manager?

#### Powering on the Server Unit

#### Requirement

Login into the SE Manager as administrator, BS2000 administrator or a privileged operator.

The unit is powered off (power status OFF).

In case of an SU /390, an existing connection to the hardware interface is required.

#### Procedure

> In the *Units* table, click the *Power On* icon for the desired Server Unit (in this example an SU300) and confirm this action in the following dialog with *Execute*.

Hardware	2	~	e								
Units											
Inits Update	e overview		. /								
nits											
Name	HW model		Server		Power status		System status		HW status		
Filter	Filter		All	$\sim$	All	$\sim$	All	$\sim$	All	$\sim$	
abgsem11	MU M2	1	abgse1		ON		1 WARNING	<b>i</b> )	NORMAL	۲	Ċ
su3-se1	SU300 M2	i	abgse1		ON		RUNNING		NORMAL	۲	Ċ
abgqa700	AU47 M2	1	abgse1		ON		RUNNING		NORMAL	۲	Ċ
abgse6mu1	MU M2	i	ABGSE6		ON		RUNNING		NORMAL	۲	Ģ
abgse6mu2	MU M2	<b>i</b> )	ABGSE6		ON		RUNNING		NORMAL	۲	Ċ
	SU300 M2	i	ABGSE6		ON		RUNNING		NORMAL	۲	Ģ
su1se6											

The powered-off Server Unit is powered on. As soon as the *Power status* for the Server Unit is *ON* and the monitor or Native BS2000 system have reached the status *INIT\_ONLY*, you can boot the BS2000.

After a Server Unit has been powered on, depending on the operating mode set, the Native BS2000 system or the monitor system are started up if an automatic startup (auto IPL) has been configured for this purpose.

#### Powering on additional units (redundant MU, HNC)

For BS2000 operation on an SU /390 the following units should also be powered on:

- In the case of MU redundancy the second MU should also be powered on. Only in this way will it remain possible to continue operating the SVP of the SU /390 if the first MU crashes. The SE Manager on the second MU will also remain available.
- To enable the BS2000 systems to communicate over the IP network and ensure access to Net-Storage is possible, the HNC must be powered on. Redundant existing HNCs should also be powered on.

## 3.2 How can I boot the BS2000 on an SU /390?

#### Requirement

Login into the SE Manager as administrator, BS2000 administrator or a privileged operator.

The Power status of the SU /390 shows the value ON.

#### Procedure

> Switch to the SVP console tab of the SU /390:

Systems	~	
□ Overview □ SE700B (SE700B)		
<u>D020-SL1 (SU700)</u>	Overview SVP console BS2000 operation r	node

> Click *Open* in the *SVP console* group:

Overview	SVP conso	e BS2	2000 operation mode							
Server Unit	D020-SL1: SV	P console								
SVP console Open										
Server Unit I	D020-SL1: SV	P connectio	n							
abasilver										
obablook		DAGOINE								
abgblack		PASSIVE	1							

If the browser now displays a warning about the security certificate, click *Continue to this website*.

The SVP console window opens.

																					3
	FFFFI	FFF	σ	U		JJJ	IJ	11	I I	TTTI	TTT	S	SSSS	P .	1	J.	τ	£ 1		-	
	F		U	U			J	1		1		S		S	1	1	U	1			
	F		U	n			J	1	£	3	5	S			Ť.	1	U	1			
	FFFF	FFF	13	n			J	1		1	9	S	SSSS	£	1	1	I	£			
	F		U	U			J	1	5	Т	5			S	1	1	I	1			
	F		u	U	J		T	I	21	1	9	S		S	1	1	0	1			
	F		nn	uuu	11	1333	r	11	Т	Т	S.	S	SSSS	1		UUI	חחו				
TTTTT	EEE	EE	CCC	СН	н	N		N	000	000	L		000	000		GGG	G	Y	Y		
T	E		C	н	н	NN	1	N	0	0	L		0	0	0	;		X	Ŷ		
т	EEE	Е	C	HH	ннн	N	N	N	0	0	L		0	0	6	; (	GGG	1.1	Ý		
T	E		C	н	H	N	N	N	0	0	L		0	0	0	š	G	1.1	X.		
т	EEE	EE	CCC	CH	н	н		NN	000	000	LL	LLL	000	00		GGG	G	19	Y		
St	SSS	00	000	L	τ	1	IJ	T	TTT	r j	II	00	000	N		N	S	SSS			
S		0	0	L	τ	1	11		T		Í	0	0	NI	4	N	S				
S	SSS	0	0	L	I	1	u		T		T	0	0	N	N	N	S	SSS			
	S	0	0	L	T	£	U		T		I	0	0	N	2	N		1.1	s		
St	SSS	00	000	LLLL	L	UUU	U		$\mathbf{T}$	10	II	00	000	N		NN	S	SSS			

- > Press the Enter key. The MODE SELECTION FRAME appears.
  - If the SVP has already been worked with, the last frame used will appear. You reach the MODE SELECTION FRAME by entering FR ML in the input line.

	MODE SELECTION FRAME	E90L01G	COAL P
FUNCTION=>			
- EXECUTION -	- SELECTION -	CPU SELECT=>	
		- 0 1 2 3 4 -	
*1 CPU STOP	*LD PROGRAM LOAD	-	
	*ST STATUS DISPLAY		
*2 INTERRUPT	*MA MANUAL OPERATION	STOP/START MODE=>	
	*AD ALTER/DISPLAY		
*3 TOD ENABLE	*ME MESSAGE	*1 ALL CPU	
	*CH CH/SUBCH STATUS	>2 TARGET CPU	
*4 SYSTEM RESET	*AU AUXILIARY		
	*MF MSF		
*5 SYSTEM RESET CLEAR	*PA PERFORMANCE ANALYZER		
*6 STORE STATUS			
*7 RESTART			
CT 0	CDU 0 TOD 0 DUN		
CT-0.	CFO-0 IOF-0 RON		
2		ACTIVE	
		AGIIVE	

You can operate the SVP console in the familiar manner using the keyboard. A virtual keyboard is also available to you for making entries on the SVP console. (Click the keyboard icon at the top right to open the virtual keyboard. Clicking the icon again closes the keyboard.)

Enter the alphanumeric characters shown in the frame in the input fields marked by an arrow (=>).

> To load BS2000, enter FUNCTION ==> ld and press the Enter key. The PROGRAM LOAD FRAME: DETAIL-1 frame will appear.

PROG	RAM LOAD FRAME	: DETAIL-1		E90L01G	
-LOAD FUNCTION-	-IPL DEVICE	-			
==> 3	==> 2				
*1 START AUTO	*1 PRESET	GROUP		+	
*2 START FAST	>*2 CURREN	T GROUP	+	1	
*3 START DIALOG	*3 UNIT A	DDRESS -+	+	+	
*4 START		5040	5040	5420	
*5 SYSTEM DUMP			XXXX	XXXX	
*6 LOAD CLEAR+			XXXX	XXXX	
*7 LOAD NON CLEAR -+			XXXX	XXXX	
1					
+M	T CONTROL-	DETAIL	L-2 STATU	S	
PARMS=> 1 =	=> 1	VM MODE	E : AVM/E	X	
>*	1 NL	EXA MODE	E : ENABL	E	
*	2 SL	IPL EXEC	C : ENABL	E	
*	3 NL-REWIND				
*	4 SL-REWIND	*ENTER H	EXECUTE		
		*PF3 (	GO TO BAS	IC FRAME	
		*PF9 (	GO TO DETA	AIL-2	
CL-0	CPU-0 IOP-0	RUN			
					-
RA				ACTIVE	

You can start execution of IPL with the entries in this frame.

The frame shows, among other things, the (current and preset) load device (also called IPL or boot load device) of BS2000. As the Server Unit was rebooted, the IPL load device from the auto IPL configuration is set. This can differ from the IPL load device of the last IPL. If necessary, select a different load device under IPL DEVICE.

Initial startup from the IPL load device requires a DIALOG startup. LOAD FUNCTION ==> 3 must be selected for this purpose.

Take note of the setting for PARMS ==>. This depends on the BS2000 operating mode set. In VM2000 mode (displayed here as VM MODE : AVM/EX), PARMS ==> 1 must be set. In Native BS2000 mode, a blank must be entered there.

In VM2000 mode, switch to the PROGRAM LOAD FRAME: DETAIL-2 if necessary using PF9 in order to check the settings for loading the VM2000 firmware.

In VM2000 mode, VM MODE ==> 2 must be set there.

- > For LOAD FUNCTION ==> select one of the functions LOAD or START and press the Enter key.
- Please monitor the further procedure on the BS2000 console. Take note of the console messages and answer the question messages.

As a large number of messages are output one after the other, question messages can also quickly "disappear". The /SHOW-PENDING-MSG (or /STATUS MSG) command enables you to have all the open question messages displayed again.

As soon as the message NSI0000 displays "System ready", startup of BS2000 has already been largely completed. You can continue to observe the current BS2000 session on the console and, when necessary, react to system messages (e.g. reply to a mount message).

For more extensive administration tasks in BS2000, you must log in on BS2000, see section "How do I open or close a BS2000 dialog?".

As an alternative to the procedure described above, you can also boot a BS2000 system in the SE Manager with the *BS2000 IPL* action. See the description in section "How can I boot the BS2000 via the SE Manager?".

### 3.3 How can I boot the BS2000 on an SU x86?

#### Requirement

Login into the SE Manager as administrator, BS2000 administrator or a privileged operator.

The Power status of the SU x86 shows the value ON.

#### Procedure

Ī

- > Switch to the BS2000 system's *Operation* mode tab of the SU x86:
  - in native BS2000 mode to the native BS2000 system:



• in VM2000 mode to the monitor system:



> In the Console and dialog group, click Open by the BS2000 console function:



The console mnemonic must be configured in the BS2000 OSD/BC parameter file; in the default case, the console mnemonics *C0* and *C1* are defined.

If the browser now displays a warning about the security certificate, click Continue to this website.

A BS2000 console window opens. The console is loaded. As BS2000 is not yet active, no console messages can yet be seen.

> Open the KVP menu with the function key F2 (on the keyboard or on a virtual keyboard on the console window):

Main KVP Function Menu
0 - Exit
4 - View last messages
5 - Show logging files
6 - SVP commands
7 - Programmable function keys
8 - Help

Please enter value:

> Click behind *Please enter value:* and enter the value **6** to display the menu with the SVP commands:

SVP commands 0 - Back to main menu 1 - Start BS2000 2 - Start BS2000 dump IPL 3 - Dump IOH memory 4 - Report actual default parameters for IPL \_\_\_\_\_

Please enter value:

> Enter the value 1 to display the menu containing the IPL functions for starting BS2000:

```
Start BS2000
_____
0 - Back to main menu
1 - Execute with current parameters
2 - Execute with preset parameters
3 - Execute with current parameters and save into preset parameters
Change params:
                                           preset parameters
                                 current
a - IPL load device:
                                 9908
                                           9908
b - Consol device:
                                           Z0
                                 Z0
c - Startup mode [a|d|f]:
                                 а
                                           f
d - BS2000 systemname:
                                          ABGAFR01
                                ABGAFR01
e - Clear BS2000 memory [y|n]:
                                 n
                                           n
_____
Please enter value:
```

The menu shows, among other things, the (current and preset) load disk (also called IPL or boot disk) of BS2000. As the Server Unit was rebooted, the boot disk from the auto IPL configuration is set. This can differ from the boot disk of the last IPL. If necessary, use menu item a to select a different boot disk.

Initial startup from the boot disk requires a DIALOG startup. For this purpose the value *d* must be set for the IPL parameter *Startup mode*. If necessary, select this value using menu item *c*.

- > Enter the value 1 to save the settings and start the IPL. This action closes the KVP menu and the current console messages are displayed.
- > Take note of the console messages and answer the question messages.

As a large number of messages are output one after the other, question messages can also quickly "disappear". The /SHOW-PENDING-MSG (or /STATUS MSG) command enables you to have all the open question messages displayed again.

As soon as the message NSI0000 displays "System ready", startup of BS2000 has already been largely completed. You can continue to observe the current BS2000 session on the console and, when necessary, react to system messages (e.g. reply to a mount message).

The F3 and F4 keys enable you to scroll backward and forward in the history of the console inputs. Pressing Ctrl + d or entering *::c* terminates the console.

For more extensive administration tasks in BS2000, you must log in on BS2000, see section "How do I open or close a BS2000 dialog?".

As an alternative to the procedure described above, you can also boot a BS2000 system in the SE Manager with the *BS2000 IPL* action. See the description in section "How can I boot the BS2000 via the SE Manager?".

### 3.4 How can I boot the BS2000 via the SE Manager?

#### Requirement

Login into the SE Manager as administrator, BS2000 administrator or a privileged operator.

The Power status of the SU shows the value ON.

#### Procedure

- > Switch to the BS2000 system's *Operation* tab of the SU:
  - in native BS2000 mode to the native BS2000 system:



• in VM2000 mode to the monitor system:

<ul> <li>⊟ abgsu2se1 (SU300)</li> <li>⊟ Virtual machines</li> </ul>		
BS2000		
ABCAEDO2 /21	Operation	Disks   KVP   LAN   Tape devices   All devices

> In the Actions group, select BS2000 IPL and click Execute:

Server Unit abgsu2se1 BS2000 VM MONITOR: Actions	?
Action BS2000 IPL V	

You can open a BS2000 console to observe the startup:

To do this, click *Open* in the *Console and dialog* group by the *BS2000 Console* function. A BS2000 console window opens and the console is loaded. There you will see the messages issued during BS2000 IPL. When the NSI0000 message displays "System ready", BS2000 boot is essentially complete. At the console, you can continue to monitor the running BS2000 session and react to system messages if necessary (e.g. answer a mount message).

Use the F3 and F4 keys to scroll backwards and forwards in the console input history. With the keys Ctrl + d or by entering :: c you end the console.

For further administration tasks in BS2000, you must log on to BS2000, see section "How do I open or close a BS2000 dialog?".

## 3.5 How do I open or close a BS2000 dialog?

#### Requirement

Login into the SE Manager as administrator, BS2000 administrator or a privileged operator.

The BS2000 system has started up and BS2000's data communication system has started.

#### Procedure

- Iconize the opened console window and switch once more to the main window of the SE Manager. That is where the *Operation* tab of the BS2000 system which was previously started was most recently opened (take note of "Logging out because of a session timeout").
- > In the Console and dialog group, click Open by the BS2000 dialog function.

0
Open
Open

A BS2000 dialog window opens and requests the login to the BS2000 system:



After you have logged in successfully using the /SET-LOGON-PARAMETERS command, you can enter commands and perform your tasks in BS2000.

To complete an entry, click the DUE1 key in the key panel of the virtual keyboard or press the Enter key on your keyboard.

#### Terminating a BS2000 dialog and closing the dialog window

Proceed as follows to close the dialog window:

> Terminate your dialog task using the /EXIT-JOB command (or /LOGOFF).

BS2000 terminates your task and the connection to BS2000 is cleared.

> Respond to the request *PLEASE ACKNOWLEDGE* by pressing the Enter key.

> The main window of the terminal emulation opens.

(conhp)		EMDS-LINUX	+
	Connection	Setup	1
	s - Standa	rd partner (LBSVM1\$DIALO	G)
	m - Connec	tion setup (manual)	,
	p - Predef	ined connections	1
	e - 9750-E	mulation end	
Your choice:	e	į.	EMDS-V5.1
		1	1 1

> Enter *e* and press the Enter key to terminate the terminal emulation.

The window is closed.

## 3.6 How do I open a BS2000 console?

#### Requirement

Login into the SE Manager as administrator, BS2000 administrator or a privileged operator.

The BS2000 system has started up and BS2000's data communication system has started.

#### Procedure

> Click on the name of the desired BS2000 system in the system overview:

Systems	~	Overview		
<u>Overview</u> <u>Overview</u>		Systems		
SE-Server-1 (SE7000)     SE Server 2 (SE700)		Name	Туре	Operating system
E SE-Server-2 (SE700)		Filter	VM2000	▼ Filter
		MONITOR	VM2000	BS2000 OSD/BC V11.0A
		ABGAFR02	VM2000	BS2000 OSD/BC V11.0A
		ABGAFR03	VM2000	BS2000 OSD/BC V11.0A
		ABGAFR04	VM2000	BS2000 OSD/BC V10.0A

The system overview lists all the systems which exist on the SE server. BS2000 systems are either of the type *I* BS2000 or of the type *VM2000*.

> In the *Operation* tab in the *Console and dialog* group, click *Open* by the *BS2000 console* function.

Server Unit su2-se1 BS2000 VM ABGAFR03: Console and dialog		0
BS2000 console with KVP VM3 and console mnemonic $\begin{tabular}{c} C0 \end{tabular}$	Open	
BS2000 dialog with connection MANLO3	Open	

A BS2000 console window opens. The console is loaded.

## 3.7 How can I shut down the BS2000 via the BS2000 console?

#### Requirement

Login into the SE Manager as administrator, BS2000 administrator or a privileged operator.

The BS2000 system has started up and BS2000's data communication system has started.

#### Procedure

 Open the BS2000 console for the BS2000 system you want to shut down (see section "How do I open a BS2000 console?").

A BS2000 console window opens. The console is loaded.

- Enter the /SHUTDOWN command (if necessary with specifications for the MODE and MESSAGE operands to warn the participants in the BS2000 dialog).
- > Take note of the console messages and answer any question messages which are issued.

Output of the message *EXC0557* SHUTDOWN PROCESSING COMPLETED indicates that shutdown of BS2000 has been completed.

- > Close the console window.
- When you shut down the monitor system of a Server Unit operated in VM2000 mode, VM2000 operation is also terminated, i.e. all BS2000 VMs are shut down. Provision should therefore be made beforehand in the monitor system to ensure that VM2000 operation is terminated correctly so that all guest systems can be shut down properly.

As an alternative to the procedure described above, you can also shut down a BS2000 system in the SE Manager with the *BS2000 shutdown* action. See the description in section "How can I boot the BS2000 via the SE Manager?" and proceed correspondingly.

### 3.8 How do I power off Server Units and other Units?

#### Shutting down the Server Unit or immediately powering it off

Requirement

Login as administrator, BS2000 administrator or operator

The unit is powered on (Power status displays the value ON).

The possible actions depend on the situation and unit. If no action is possible, the tooltip shows the reason.

In case of an SU /390, an existing connection to the hardware interface is required.

#### Procedure

> In the Units table click the Power Officon by the desired SU:

Units											
nits Update	e overview										
nits											
Name	HW model		Server		Power status		System status		HW status		
Filter	Filter		All	$\sim$	All	$\sim$	All	$\sim$	All	$\sim$	Γ
abgsem11	MU M2	<b>i</b> )	abgse1		ON		🔔 WARNING	<b>i</b> )	NORMAL	۲	
su3-se1	SU300 M2	i	abgse1		ON		RUNNING		NORMAL	۲	Γ
abgqa700	AU47 M2	<b>i</b> )	abgse1		ON		RUNNING		NORMAL	۲	(
abgse6mu1	MU M2	i	ABGSE6		ON		RUNNING		NORMAL	۲	(
abgse6mu2	MU M2	<b>i</b> )	ABGSE6		ON		RUNNING		NORMAL	۲	(
su1se6	SU300 M2	i	ABGSE6		ON		RUNNING		NORMAL	۲	(
			400050		IN ON						

- In the dialog box which then appears, select the option Shut down or Power off immediately and confirm the action with Execute. When shutting down, the BS2000 systems on the SU x86 are shut down gracefully and the system waits for termination, if configured.
  - Only *Power off immediately* is available for the SU /390. In this case shut down is possible only via the BS2000 console (see section "How do I open a BS2000 console?") or via the action *BS2000 shutdown* on the *Operation* tab of the SE Manager.

The Server Unit is shut down or powered off immediately.

### Shutting down additional units or immediately powering them off

Additional units such as Management Units (also redundant MUs), HNCs (only for SU /390) and Application Units are powered off in the same way as the Server Unit.

#### Requirement

Login as administrator, BS2000 administrator (MU, HNC only), Operator (MU, HNC only) or AU administrator (AU only)

The unit is powered on (*Power status* displays the value *ON*).

The possible actions depend on the situation and unit. If no action is possible, the tooltip shows the reason.

#### Procedure

- > In the Units table of the desired unit click the Power Officon:
- > In the dialog box which then appears, select the option *Shut down* or *Power off immediately* and confirm the action with *Execute*.

For an Application Unit see also section "How do I power on/off an AU via the SE Manager?".

## **4 Powering on/off Application Units**

As a rule an operating system of another vendor (Windows, Linux or Unix systems) runs on an Application Unit. The scope of the setting and display options thus depends on the operating system concerned.

Application Units are displayed in the tree structure as <unit name> (AU<model>).

When a partitionable AU is supported as an appliance delivery on the basis of Oracle VM Server from FUJITSU, it is displayed as a Database Unit with the short name DBUxxx (e.g. DBU87 or DBU38E). Otherwise the short name AUxxx is displayed (e.g. AU87 or AUQ38E).

There are two ways to power on/off an Application Unit:

- How do I power on/off an AU via iRMC?
- How do I power on/off an AU via the SE Manager?

## 4.1 How do I power on/off an AU via iRMC?

#### Requirement

Login as administrator or AU administrator

#### Procedure

You operate a native system via the Operation tab.

> Click on the name of the desired AU in the system overview.

🗗 Systems 🗸 🗸	Overview		
Overview     Overview     SE-Server Logr (March)	Systems		
	Name	Туре	Operating system
	Filter	Native-AU 🔹	Filter
	paris	Native-AU	VMware ESXi 6.0.0
	madrid	Native-AU	VMware ESXi 6.0.(
	abgcapetown	Native-AU	Oracle VM server 3

> Click Open next to *iRMC* in the Operation tab in the Operation group.

pilcation onic abgeaperown.	3000		
Host name	abgcapetown		
Status	RUNNING		
Serial number	YKHJ001032		
Operating system	Oracle VM server 3.3.1		
Description	Oracle VM server for test systems	1	
Application Unit abgcapetown	Operation	0	
IRMC	Open		

In the case of a partitionable AU (an AU PQ, e.g. AU87), systems run on the individual partitions of the AU. You operate a partition via the Management Board. Open the web interface of the Management Board in the *Operation* group instead of the iRMC:

Open

> Click *Login* in the window of the iRMC's web interface, enter user name and password in the login window and click *OK*.

After a successful login the browser window displays the *System Overview* menu item of the iRMC's graphical user interface. The *System Status* group shows that the AU is powered off.

In the navigation select Power Management -> Power On/Off. In the Power Control group activate the option you require (Graceful Reset (Reboot) is selected in the example) and click Apply.

PRIMERGY RX200 S6	FUJITSU ServerView® iRMC S2 Web Server	💻 Deutsch 🔰 日本語
par .net		Power On/Off
System Information iRMC S2 Power Management Power OniOff Power Options Power Supply Info	Power Status Summary Power Status: Power On Power On Counter: 8 Years 7 Months 22 Days 5 Hours 55 Minutes Last Power On Reason: Power on Remote control Via Remote Manager Last Power Off Reason: Power off - Software or command	
Power Consumption     Sensors	Boot Options	
Event Log     Server Management     Network Settings     Alerting     User Management	Error Halt Settings: Continue   Boot Device Selector: No Change   Apply	
Console Redirection	Power Control	
Video Redirection (JWS) Remote Storage	Power On Power Cycle	
Third Party Licenses	Immediate Power Off     Graceful Power Off (Shutdown)     Immediate Reset     Sraceful Reset (Reboot)	
Refresh	O Pulse NMI O Press Power Button 1	
	Do you really want the server to 'Graceful Reset (Reboot)' ? Contem Cancel	
	(i) Note: 'Press Power Button' emulates a short press on the Power Button of the server. Depending on the Operating System and the shutdown, suspend, hibernate or continue operation.	he configured action, the server can

> Reply to the subsequent question by clicking *Confirm*.

You can observe the status of the AU in the SE Manager in the overview of the units.

## 4.2 How do I power on/off an AU via the SE Manager?

#### Requirement

Login as administrator or AU administrator

#### Procedure

> In the *Units* table of the desired AU click the *Power onl off* icon:

Units		.,						
Inits Update	overview							
vite								
nits								
nits Name	HW model		Chassis	Power status	System stat	us	HW status	
nits Name Filter	HW model		Chassis Filter	Power status	System stat	us	HW status All	×
nits Name Filter abgse1au1-0	HW model AU AU25 M1	<b>i</b>	Chassis Filter	Power status All ON	System stat	us V	HW status	✓

> In case of powering off, click *Shut down system* and then *Execute*.

Power off u	nit					?
Shut down	or power off A	pplication Unit abg	se1au1-0.			
Shut do	wn system off immediatel	ly				
					Execute	Cancel
or a partition	able AU P	Q the partitions	are powered	d on/off individ	dually (not the entire u	unit):
auc8-se1	DBU87	(1) 1541517004	SE-Server-1	> ON		
	AU87-P	(i) 1541517004	SE-Server-1	D ON	PUNNING	
bgse1au87-3	10011	1041017004			- NONININO	NORWAL

## **5 Working with AIS Connect (remote service)**

This chapter covers the following topics:

- How do I change the AIS Connect Service access?
- How do I open a shadow terminal?
- How do I restart the AIS Connect Service Agent?
- How do I delete the AIS session logging files?

## 5.1 How do I change the AIS Connect Service access?

#### Requirement

Login as administrator

#### Procedure

> Select the *Remote Service* tab next to the MU in the *Service* menu:



> Click the pencil icon in the Service access Management Unit group:

Update CSR Diagnostics Remote Service		
Management Unit abgblack: AIS Connect		(?
Service access Management Unit		
Asset name	Access status	
se700_b_se700os6server1_abgblack	Access not allowed	
Shadow terminal for	admin (System Administrator)	Open

> Select the required setting for the service access (here: Access allowed, shadow possible) and click Change.

Change the Al	S Connect service acce	ess for Management Unit a	abgblack.	
Access allo	wed, without shadow			
Access allo	wed, shadow possible			
Access allo	wed, shadow mandator	У		
Access not	allowed			

### 5.2 How do I open a shadow terminal?

#### Requirement

Login as administrator, BS2000 administrator or operator

#### Procedure

> Select the *Remote Service* tab next to the MU in the *Service* menu:



> Click *Open* for the shadow terminal:

Convice access Mar	adement II	nit							
Asset name	agement o					٥	cross status		
se700 b se700osi	Seenver1 ah	ablack					ccess allowed sha	dow possible	/
	oonnonac	goraon							/
Shadow terminal fo	r					а	admin (System Admi	nistrator)	Open
Namina Press				1		dr I	5 - 5 - (COD - 2011)	(5050) +- ++- 1	
t of known hos	nentiy ad	aaea 'm	u2-se	1.se	net, fo	abe::	Sese:000::201.	(ECUSA) to the J	15 Press a
Welcome to M20	00 V6.2A								
Warning: Perma	nently ad	dded 'm	u2-se	1.se	net,fo	d5e:5	5e5e:600::201'	(ECDSA) to the ]	lis
t of known hos	ts.								
Welcome to M20	00 V6.2A								
Welcome to									
	48.48.4	** ** **	###	#	##	###	#		
# #									
# # # # # #	#	# #	#	#	#	#	#		
# # # # # # # # # #	#	# # # #	#	#	#	#	#		
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* *	##### #####	* * * * * *	# # #	# # # #	#	# # # #	# # #		
# # # # # # # # # # # # #	###### ###### # #	* * * * * *	# # # #	# # # # #	# # : # : # :	# # # #	# # # #		

- > Enter screen -1s to find active sessions (displayed in the format <pid1>.<pid2>.<pid3>).
- > Enter screen -x < *pid1* >.< *pid2* >.< *pid3* > to connect the shadow terminal with the required service session and to follow the session.

## 5.3 How do I restart the AIS Connect Service Agent?

#### Requirement

Login as administrator

#### Procedure

> Select the *Remote Service* tab next to the MU in the *Service* menu:



> Click the *Restart* symbol in the *AIS Connect Service agent* group:

Management Unit abgblack: AIS Connect		0
Service access Management Unit		
Asset name	Access status	
YLEG001029	Access allowed, shadow possible	1

Status	
RUNNING	98

## 5.4 How do I delete the AIS session logging files?

#### Requirement

Login as administrator

#### Procedure

>

> Select the *CL*/tab next to the MU in the *Management* menu:

Hardware	~	
🗆 Units		
SE700B (SE700B)		
D020-SL1 (SU700)		
abgblack (MU)		
Information		
Management	IP configuration   Routing & DNS   SNMP   System time	I <u>C</u> L
Service		
lick <i>Open</i> .		
IP configuration Routing & DNS	SNMP System time CLI	
Management Unit abgblack: Termina	I window	
Terminal window with the account	admin Open	
Last login: Thu Mar 7 12: Welcome to	:34:33 2019 from abgblack.senet	^
Last login: Thu Mar 7 12: Welcome to	34:33 2019 from abgblack.senet	^
Last login: Thu Mar 7 12: Welcome to	:34:33 2019 from abgblack.senet	^
Last login: Thu Mar 7 12: Welcome to # # ##### # # # # # # # # #	.34:33 2019 from abgblack.senet	^
Last login: Thu Mar 7 12: Welcome to #	34:33 2019 from abgblack.senet	*
Last login: Thu Mar 7 12: Welcome to # # ##############################	34:33 2019 from abgblack.senet	^
Last login: Thu Mar 7 12: Welcome to # # ##### # # # # # # # # # # ######	34:33 2019 from abgblack.senet	^
Last login: Thu Mar 7 12: Welcome to # # ##### # # # ###### #	34:33 2019 from abgblack.senet	^
Last login: Thu Mar 7 12: Welcome to # # ##### # # # # # # # # ###### # # # # # ######	34:33 2019 from abgblack.senet	•
Last login: Thu Mar 7 12: Welcome to # # ##### # # # ##### #	<pre>34:33 2019 from abgblack.senet #### #### ###########################</pre>	^
Last login: Thu Mar 7 12: Welcome to # # ##### Unit : abgblack (Managem User : admin (Role : Adm User : admin (Role : Adm Available commands: cli_i admin@abgblack (M): aisLoq	<pre>334:33 2019 from abgblack.senet #### ################################</pre>	^
Last login: Thu Mar 7 12: Welcome to # # ##### # # # # ##### # # # # # # # # # # # # Unit : abgblack (Managem User : admin (Role : Adm 	<pre>34:33 2019 from abgblack.senet #### ################################</pre>	•
Last login: Thu Mar 7 12: Welcome to # # ##### # # # # # # # # # # # # # # # # # Unit : abgblack (Managem User : admin (Role : Adm 	34:33 2019 from abgblack.senet	^

- > Optional: Enter **aisLog** -1 to list the existing AIS session logging files.
- > Enter **aisLog** -r to delete the existing AIS session logging files.

## **6 Notes for error situations**

In case error situations occur, you may have to take screenshots of the SE Manager, generate diagnostic data within a timely manner and deploy them to the Service Center.

#### **Customer ID**

Please note that you must provide your customer ID each time you communicate with the Service Center. The customer ID can be found in the *Service* main menu on the *Information* tab. Example:



The following issues are dealt with below:

- How do I generate diagnostic data?
- How do I deploy diagnostic data for the Customer Support?

## 6.1 How do I generate diagnostic data?

#### Requirement

Login as administrator, BS2000 administrator, Operator or XenVM administrator (SU x86 only)

#### Procedure

> Select the *Diagnostics* tab in the *Service* menu by the requested unit (MU, SU x86 or HNC):



> In the *Diagnostics* group click *Create new diagnostic data:* 

Update CSR Diagnostics Remote Service	
Management Unit abgse1mu1: Diagnostics	?
Create new diagnostic data	
File name	
DIAGtar.M6_3A.abgse1mu1.20181220.102746.tar.bz2	ţ)

#### Confirm the request with Create:

Create new file with current diagnostic data	
Do you really want to create a new file with diagnostic data on Management Unit <b>abgse1mu1</b> ? Note: The creation of diagnostic data may take some time. An already existing file with diagnostic data will be deleted.	
Create Cancel	

#### CAUTION!

Any existing diagnostic file is overwritten. If necessary, download the existing file to your local system first.

## 6.2 How do I deploy diagnostic data for the Customer Support?

#### Unit-specific diagnostic data

#### Requirement

Login as administrator

#### Procedure

> Select the *Diagnostics* tab in the *Service* menu by the requested unit (MU, SU x86 or HNC):



> Click the download icon on the *Diagnostics* tab:

Update CSR Diagnostics Remote Service	
Management Unit abgse2mu1: Diagnostics	(
Create new diagnostic data	
File name	
DIAGtar.M6_2A.abgse2mu1 .20170908.081646.gz	<b>.</b>

The download starts depending on the browser settings.

Deploy the diagnostic data in agreement with the Service Center: send the diagnostic file to Service Center, e.
 g. by email.

#### Further diagnostic data

Further files with diagnostic data, which are available and accessible on the MU, can be transferred to the server of the Service Center by the administrator with the command *aisTransfer*. A description of the *aisTransfer* command can be found in the online help.

#### Screenshots and browser console

In the case of problems that are visible in the SE Manager, the following diagnostic data can also be created depending on the situation and sent to Customer Support, e.g. by email:

- meaningful screenshots
- relevant browser console output (copies or screenshots)