

Quick Start Guide

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Hardware

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Eviden 30 bis rue du Nid de Pie 49000 Angers FRANCE

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Preface

- In this guide you will find the first steps to perform before you can use your new BullSequana SA server.
- See The Bull support web site for the most up-to-date product information, documentation, , firmware updates, software fixes and service offers: BullSequana SA servers — Bull On-line Support Portal

Intended Readers

This guide is intended for customer technical expert or EVIDEN Maintenance team.

Chapter 1. Discovering the server

Your system has been factory-built and tested arriving with a BIOS and firmware ready to go.

1.1.1 USB key (part of the delivery)

A USB key is delivered with documentation, firmware and BIOS version.

1.1.2 Support Online (SOL) resources for BullSequana SA (Eviden support website)

Product documentation and downloads are available from Eviden website:

https://support.bull.com/ols/product/platforms/bullion/bullsequana-sa-servers/

More contents are available to the customer with support contract (login access is requested on this webserver).

If you don't have an account, you can sign up at : https://support.bull.com/ols/join_form

1.2 Server identification

After unpacking your server and before racking it, save the following information:

- MAC Addresses
- XAN serial number
- Motherboard Serial number

The following chapters explain how to find and how to use them.

1.2.1 MAC addresses collection

Located on network adapters labels.



LAN1 : MAC

LAN2 : MAC LAN1+1

BMC via dedicated interface (M): MAC LAN1+2

BMC via shared interface (LAN1): MAC LAN1 +3

1.2.2 XAN serial number

The XAN is a unique number that identifies your server at Eviden, located on top of the server chassis. or on the front label drawer.



You will be asked for this number each time you query support Eviden.

1.2.3 Motherboard Serial Number

This number is used as the default password to log in to the BMC. It can be found on the right side of the chassis.



Chapter 2. Starting the server

2.1 Server BMC setup

By default, network is configured in DHCP.mode.

Two cases for IP configurations:

- your network is providing DHCP service: contact your network administrator.
- you are using a static IP configuration in this case; you have to configure this IP address in the BIOS as specified in the following section.

Two cases to define ports used.

- BMC via dedicated interface (M)
- BMC via shared interface (LAN1)

2.1.1 BIOS Access – Static IP configuration

If you use DHCP go to <u>2.1.1.2 Start the server</u>.

2.1.1.1 Connect monitor & keyboard.

Before starting the server, you need to connect a VGA display and a keyboard.

The connectors are located on the back of the server."



2.1.1.2 Start the server.



2.1.2 Powering the system

The server is started by pressing power button (1) on the front panel.

Front Panel



In the User Guide located on the USB stick ("documentation" directory), you will find in the section "Front Panel LEDs and Button" the meaning of the different LEDs.

2.2 Connect and setup the BMC

For the first BMC login, open a browser and go to: <u>https://IP_Adress_of_the-server</u> then open a session using default user "admin"

The password is located on the right chassis side (cf Motherboard Serial Number)

For example



Then change the default password,

Go to menu "Settings", "User Management", select "admin" account, change, and save the new "admin" user password.



2.2.1 How to access BIOS menu from the BMC

This will restart your server.

<text><list-item>

While the server is rebooting, navigate to the BMC dashboard and select the "Power Control" menu. Then, launch the "H5Viewer" to open a remote window on your server. When you see the screen, press the key to enter the BIOS



2.3 Check HW inventory and components status

In most cases, servers are configured with boot drives in RAID1, although this may vary depending on your order specifications.

Other drives connected to the MegaRAID adapter are configured in JBOD (Just a Bunch Of Disks) mode. Administrator shall finalize MegaRAID configuration on-site.

2.3.1 Hardware Inventory from the BMC GUI.

Connect to the BMC using the username "admin" and verify the presence of the PCI RAID card by following these steps: System Inventory => PCI Inventory = Add In Card

	2023-11-22 17:10:53 (UTC+	02:00 UTC)		8 A	US - English 🔹 🔍 🛛 Bi	OS OSync 🖸 Refresh 💄 admin 🗣
BMC Firmwark Information 12.66.00 April 12.822 10:58:14 CST © Heat Online Quick Links.	PCI Inventory •				Collaps	ef Home - PO Investory e All Expand All Download SMEIOS file
📾 Sensor	+ On Board					
System Inventory	- Add In Card					
FRU Information	OCP2_A/B/SLSAS_3					
	 SLOT1_FRONT_A 					
Logs & Reports >	- MegaRAID SAS-3 3108	[Invader]				
Settings						
Remote Control	Manufacturer	Туре	Vendor ID	Device ID	Link Width	Link Speed
G Image Redirection	Broadcom / LSI	RAID bus controller	0x1000	0x005D	×8	Gen3
O Power Control	+ SLOT2_REAR_A					
F Maintenance	+ SLOT3_A					

Drives behind the MegaRaid PCI card are not directly visible here. Use the BIOS Setup (see next section).

2.3.2 Hardware Inventory from BIOS menu.

During the server Power On, select to enter in the BIOS menu <u>see how to access</u> <u>BIOS menu from the BMC</u>.

At the home page you have main information on your server

	Jtility — Copyright (C) 2021 American AMD PBS Option Chipset Server Mgmt	
BIOS Information		▲ Set the Date. Use Tab to
Project Name	MZ92-FS0-00	switch between Date
Project Version	R25	elements.
Build Date and Time	10/11/2021 22:22:38	Default Ranges: Year: 2018–2099
BMC Information		Months: 1–12
BMC Firmware Version	12.60.09	Days: dependent on month
Processor Information		
CPU O Brand String	AMD EPYC 7662 64-Core	
	Processor	
CPU 1 Brand String	AMD EPYC 7662 64-Core	
	Processor	
CPU Speed	2000 MHz	→+: Select Screen
Processor Core	64	1↓: Select Item
Microcode Patch	830104D	Enter: Select
		+/-: Change Opt.
Total Memory	262144 MB	F1: General Help
Memory Speed	3200 MT/s	F3: Previous Values F9: Optimized Defaults
VR Information		F10: Save & Exit
Version	8048	ESC: Exit

2.3.2.1 RAID components

Navigate to Advanced => AVAGO MegaRAID model > Configuration Utility



Look in PROPERTIES and verify that:

- Drives to see the available disks behind the PCI card
- **Drive Groups** to see the number of configured Raid Group
- Virtual Drives to see the number of volumes configured and available.



In ACTIONS, you're able to verify the RAID types, Status and capacity:

Nain Menu Hajo PROPERTIES Status Durrent Personality Backplane BBU Enclosure Drives Drives Drives Drives Drives Untual Drives Virtual Drives Virtual Drives Set Factory Defaults Update Firmware Stience Alarm BackGROUND OPERATIONS	[Oct imal] [RAID] 1 [NG] 0 8 2 2 2	 Displays configuration otions. Some options appear only if the controller supports them. As an example, Create Profile Based Virtual Drive, Create CacheCade Virtual Drive, Make 3000, Ase unconfigured Good, Clean configured Good, Clean configured Good, the select Screen Select Item Enter: Select +*: Select Item Fa: Optimized Defaults F3: Optimized Defaults F10: Save & Exit EDS: Exit 	Drive Group Copacity Allocation Protected Drive Group Capacity Allocation Protected	Drive Group #0 (Virtual Orive 1: RAIDO, 20.555TB, Optimal] No Drive Group #1 (Virtual Drive 0: RAIDI, 446.62508, Optimal] No	Displays associated virtual drives for the drive group and any available free capacity. ++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F3: Optimate Defaults F10: Save & Exit F10: Save & Exit
Progress Drive Operations in Progress	None				

2.3.2.2 Network

From the "Advanced" menu, you can find 4 dedicated submenus for each Network adapter:



2.3.2.3 BMC network

Navigate to Server Mgmt => BMC network configuration. This interface can be used to specify static IP configuration.

Aptio Setup Utility – Copyright (C) 2021 American Megatrends, Inc. Server Mgmt				
BMC network configuration Lan channel 1 Donfiguration Address source Station IP address Subnet mask Router IP address Station MAC address VLAN Support Real-time synchronize BMC network	[Static] 10.197.176.108 255.255.240.0 10.197.188.1 d8-5e-d3-1f-46-a5 [Disabled] parameter values	Select to configure LAN channel parameters statically or dynamically(by BIOS or BMC). Unspecified option will not modify any BMC network parameters during BIOS phase		
		++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F3: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit		
	Copyright (C) 2021 American M	egatrends, Inc. 84		

Chapter 3. Deploying the system

3.1 Preparing OS deployment

3.1.1 Server Power on

Check the status of your host, if off please Power On

	() 2024-02-14 15:02:14 (UTC+00:00 GMT)	
BHC.Firmware.informati 12.81.19 Dec.13.2023.34:30:55 CS 0 Host Office	Power Control on Heat Secure	
Quick Links	+ Power Actions	0
# Dashboard	Host is currently off	
👩 Sensor	Power Off	
• System Inventory	> Power On	
• FRU Information	Power Cycle	
🕍 Logs & Reports	> Hard Reset	
 Settings 	ACPI Shutdown	
		O Perform Action
G Image Redirection	PMC bollow	
	BMC Action	
	Cold Reset	
🖶 Sign out		

3.1.2 Operating System installation options

3.1.2.1 By using a Virtual Media

From the remote windows select an image to load then click start to install your operating system



3.1.2.2 By using a Pre-boot eXecution Environment (PXE)

Change the BIOS boot list to enable PXE booting. Then, restart the server and connect to the BMC using the admin account. Navigate to the "Remote Control" submenu and open a remote window.

You can also restart the server and during the boot session press the< F12> key to force Network boot.



Verify that PXE support is Enable for the desired network card:

Network Stark Iov4 PXE Support	(Enabled) (Enabled)	Enable/Disable IPv4 PXE boot support. If disable
Ipv4 HTTP Support	(Disabled)	IPv4 PXE boot support wi
Ipv6 PXE Support	[Enabled]	not be available.
Ipv6 HTTP Support PXE boot wait time	[Disabled]	
Media detect count	1	
		++: Select Screen 11: Select Item
		Enter: Select +/-: Change Opt.
		F1: General Help
		F3: Previous Values F9: Optimized Defaults
		F10: Save & Exit
		ESC: Exit
		ican Megatrends, Inc.

3.1.2.3 By using a bootable USB drive

Plug a bootable USB flash drive into any of the USB ports of the server. You may need to adjust the BIOS boot list to enable booting from the USB drive. Afterward, restart the server and connect to the BMC using the admin account. Then, navigate to the "Remote Control" submenu and open a remote window.



3.2 Microsoft Windows Server 2022 preload

If you ordered Microsoft Windows Server 2022 preloaded, you must activate it.

For more details, please download the document titled <u>'86A172FT Preloaded Windows</u> <u>User Guide</u>' from SOL.

Chapter 4. Platform management tools

The GSM software suite is an optional and free tool designed for the centralized management of multiple BullSequana SA servers. It can be downloaded from the SOL website. This suite comprises three main components:

- 1. GSM Server: A browser-based GUI software program that provides easy-to-use remote monitoring and management capabilities for multiple BullSequana SA servers. It interfaces with the BMC of each server node.
- 2. GSM Agent: This software program is installed locally on BullSequana SA server node, tasked with retrieving supplementary node information such as CPU, memory, hard disk drive, PCI components, etc., directly from the operating system (OS). Subsequently, this data is available from GSM agent Web UI, and it can be pulled by GSM Server
- 3. GSM CLI: A command-line interface program that facilitates global remote monitoring and management of multiple BullSequana SA servers. It operates via the BMC of each server node.