

Quick Start Guide

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Hardware

April 2025

Eviden 30 bis rue du Nid de Pie 49000 Angers FRANCE

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Preface

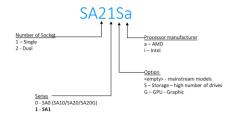
- In this guide you will find the first steps to perform before you can use your new BullSequana SA server.
- **See** The Bull support web site for the most up-to-date product information, documentation, , firmware updates, software fixes and service offers: <u>BullSequana SA servers — Bull On-line Support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

Intended Readers

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

Introduction

The BullSequana SA1 range comprises 7 models optimized for SAS, SATA and NVMe storage, categorized into 2 families based on the CPU manufacturer (AMD or Intel).



		AI	٨D		Intel		
Model	SA11a	SA21a	SA21Sa	SA21Ga	SA11i	SA21i	SA21Si
Serial number	XAN-GE5A-xxxxx	XAN-GE8A-xxxxx	XAN-GE7A-xxxxx	XAN-GE6A-xxxxx	XAN-GE5I-xxxxx	XAN-GE8I-xxxxx	XAN-GE7I-xxxxx

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 : <u>https://support.bull.com/ols/join_form</u>

1.2 Server identification

We have grouped on the label holder all the necessary information that you must keep

- Asset tag (XAN)
- LAN Interface (BMC)
- Board Serial Number (BMC password)
- QR code to access this document.

You will also find a QR code to directly access this document.

Models	Label Holder
SAlla,	
SA11i, SA21Ga	
SA21Sa,	
SA21Si	Se Materialer das elas das das das des des des des des des des des des de
SA21a,	
SA21i	

Example of label:

Asset tag (XAN): LAN Interface (M): Board serial number: (BMC password)	XAN - GE8A - 00012 74:56:3C:82:D5:87 NKW01300439	Quick start guide	
	and the second		回常物設設

1.2.1 Asset Tag XAN serial number

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



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

1.2.2 LAN interface (M)

The BMC MAC address is written on the label holder. The M Management port can also be found directly on the network card, or on the G-SC module (SA21i, SA21SI) but this requires opening the server.

1.2.3 Board Serial Number (BMC password)

This number is the motherboard serial number. It's used as the default password to log in to the BMC.

It can be found on the label holder or on the right-side chassis.



Chapter 2. Starting the server

2.1 Server BMC setup

By default, network is configured in DHCP.mode.

Two cases for IP configurations:

1. your network is providing DHCP service: contact your network administrator.

See &LAN interface (M) on the label holder for the BMC MAC address.

2. you are using a static IP configuration in this case; you must configure this IP address in the BIOS as specified in the following section (2.1.1.1).

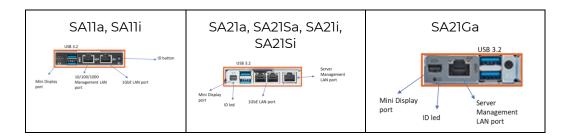
2.1.1 BIOS Access – Static IP configuration

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

2.1.1.1 Connect monitor & keyboard.

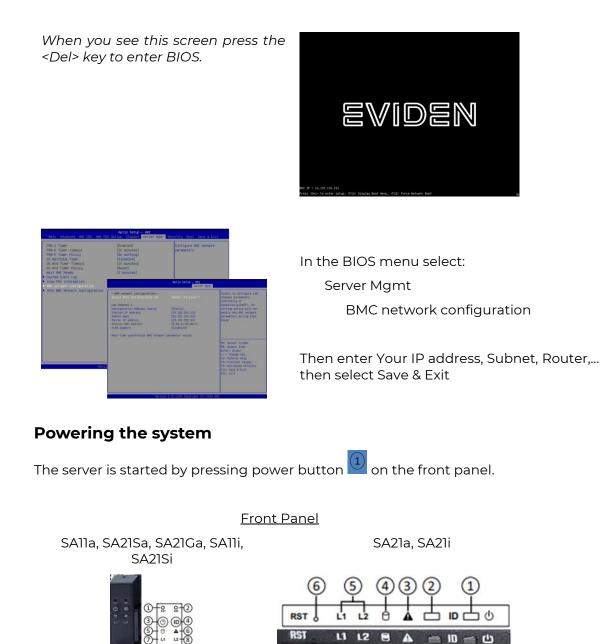
Before starting the server, you need to connect a display via the Mini Display port (Mini display port to VGA adapter is included) and a keyboard.

The connectors are located on the back of the server.



2.1.1.2 Start the server.

2.1.2



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"

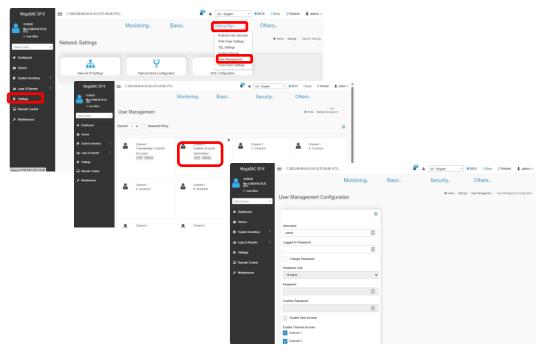
The password is located on the label holder (cf Board Serial Number)

For example

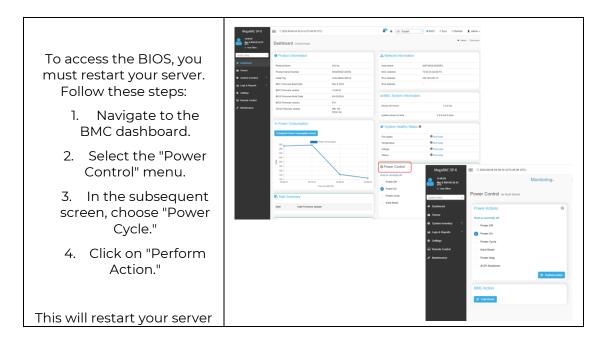


Then change the default password,

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



While the server is rebooting, navigate to the BMC dashboard and select the "Remote KVM" 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



AGESA PI Version

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

MegaRAC SP-X	© 2023-08-06 04:42:03	(UTC-05:00 UTC)		🔗 🔺	US - English	• BIOS	o Sync 🖸	Refresh	👤 admin 🗸
13.06.02 Mar 8 2024 02:43:23 UTC • Host Online	PCI Inventory							# Home >	
# Dashboard									0
Sensor	On Board								
	Туре	Name	Manufacturer		Vendor ID	Device ID	Link Width	Link Sp	eed
» CPU Inventory	Ethernet controller	1350 Gigabit Network Connection	Intel Corporation		0x8086	0x1521	x1	Gen2	
DIMM Inventory PCI Inventory	Ethernet controller	1350 Gigabit Network Connection	Intel Corporation		0x8086	0x1521	x1	Gen2	
 HDD Inventory 	PCI bridge	AST1150 PCI-to-PCI Bridge	ASPEED Technolog	gy, Inc.	0x1A03	0x1150	x1	Gen1	
» NIC Inventory	VGA compatible controller	ASPEED Graphics Family	ASPEED Technolog	gy, Inc.	0x1A03	0×2000	x1	Gen1	
» GPU Inventory » FRU Information » PSU Information	Add In Card								
🕍 Logs & Reports 💦 💙	Туре	Slot Number	Name	M	anufacturer	Vendor	D Device ID	Link Width	Link Speed
 Settings Remote Control 	RAID bus controller	SLOT3 0000:01:00.0	MegaRAID 12GSAS/PCIe Se SAS38xx	cure Br	roadcom / LSI	0×1000	0×10E6	x8	Gen4
✗ Maintenance									

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.

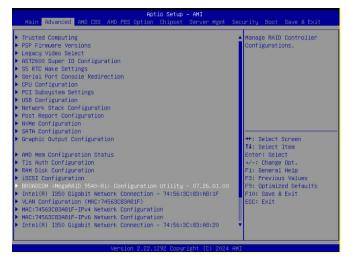
During the server Power On, select to enter in the BIOS menu <u>see how to access</u> <u>BIOS menu from the BMC</u>.

At the home page you have main information on your server

Main Advanced AND EBS Option Chipset Server Mgnt Security Boat Save & Exit BIDS Information F0 <		Aptio Setup – AMI	
Project Varie R23-F50-000 Project Varision F21 Build Date and Time 05/15/2024 18:03:29 BWC Information BWC Firmware Version BWC Firmware Version 13.06.02 Processor Information Processor Processor CPU 0 Brand String AMD EPVC 334 32-Core Processor Processor Core 64 Cores 128 Threads Hicrocode Patch AD0144 Wire Total Hemory 32768 MB (DD5) F1: General Help F2: Optimized Defaults Wension E104 M25A PT Version 1.0.0.8	Main Advanced AMD CBS AMD	PBS Option Chipset Server Mgmt	Security Boot Save & Exit
Project Water Project Version P21 Build Date and Time 05/15/2024 18:03:29 BNC Information BNC Elimane Version 13.06.02 Processor Information DPU 0 Brand String Processor DPU 1 Brand String Processor DPU 3 Brand String Processor Processor Dore 64 Cores 128 Threads Hicrocode Patch A101144 Water 3 Brand Processor P1 Version E104 AGESA P1 Version P1 Version 1.0.0.8	DTOD Ta Casmat Las		
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Total Memory 22768 MB (DDR5) File General Help Memory Speed 4800 MT/s F3: Previous Values VR Information E104 F3: Save & Exit Version E104 ESC: Exit AGESA PI Version PI Version 1.0.0.8			
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Unector 2:22:1022 Comunistic (C):2024 AMT			
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2.3.2.1 RAID components

Navigate to Advanced => BROADCOM 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.

		A Shows menu options such a
Help		Configuration Management,
		Controller Management,
PROPERTIES:		Virtual Drive Management,
Status	[Optimal]	Drive Management and
Backplane	1	Hardware Components.
CacheVault	[NO]	
Enclosure	0	
Drives	2	
JB0Ds	0	
Drive Groups	1	
Virtual Drives	1	
View Server Profile		
		++: Select Screen
ACTIONS:		14: Select Item
Configure		K/M: Scroll Help Area
Set Factory Defaults		Up/Down.
Update Firmware		Enter: Select
BACKGROUND OPERATIONS:		+/-: Change Opt. F1: General Helo
Virtual Drive Operations in	None	F3: Previous Values
Progress	Nune	F9: Optimized Defaults
Drive Operations in Progress	None	F10: Save & Exit
billye operactoris in Progress	Nulle	ESC: Exit
MegaRAID ADVANCED SOFTWARE OPTION	s:	V LOUY EXIL
The Survive in Printer Di Tranke Di Trank	* *	

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

▶ Main Menu ▶ Help		Displays configuration	► Clear Conf	Group Properties iguration	the availa	nformation about ble drive sociated virtual
PROPERTIES:		appear only if the controller supports them.		Advanced	Aptio Setup - AMI	
Status Backplane CacheVault Enclosure Drives JBODS Drive Groups Virtual Drives Virtual Drives View Server Profile	[Dptime1] 1 [No] 0 2 0 1 1	As an example, Create Profile Based Virtual Drive, Create Virtual Drive, Make 3000, Make Unconfigured Good, Clear configuration, Manage Poreign Configuration, • ++: Select Screen		Drive Group Case iny Allocation Secured	Drive Group #0 Dvirtual Drive d: BOOT, MeDI. 446.62568, Optimal No	Displays as virtual dri drive group available fr
ACTIONS: Donfigure Set Factory Defaults Update Firmware BACKEROUND OPERATIONS: Virtual Drive Operations in Progress Drive Operations in Progress MexaRADE ODVINCED SOFTWARE OPTIO	None None	T4: Select Item K/H: Scroll Help Area Up/Down. Enter: Select +/-: Change Opt. F1: General Help F3: Previous Values F9: Optimized Defaults F10: Save 8 Exit ESC: Exit				++: Select 1 14: Select 1 K/H: Scroll Up/Down. Enter: Selec +/-: Change F1: General F3: Previou F9: Optimiz: F10: Save & ESC: Exit

2.3.2.2 VROC components

As an option, you can connect a VROC key. Two types of VROC key

• Standard VROC key for RAID0/1/10

• Premium VROC key for RAID0/1/5/10 The key must be installed as indicated in the diagram below, which is located on the server's cover.

Check that Intel MD configuration is enable :

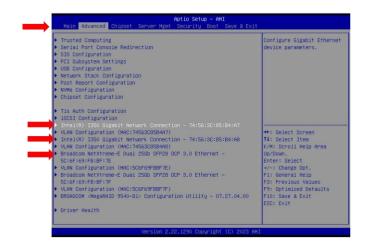
From the BIOS menu, go to : Chipset and select IIO Configuration" Select "Intel VMD technology" Set "Intel VMD Configuration" to "enable":



More detail is available on Intel web site under Support "Resources for Intel® Virtual RAID on CPU (Intel® VROC)" (https://www.intel.com/content/www/us/en/support/articles/000024550/memory-and-storage/datacenter-storage-solutions.html)

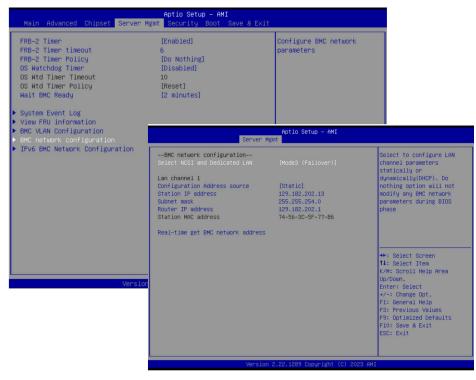
2.3.2.3 Network

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



2.3.2.4 BMC network

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



2.3.2.5 On Board ethernet MAC addresses

From the BMC home screen select NIC Inventory tab to view MAC address of the on board/port

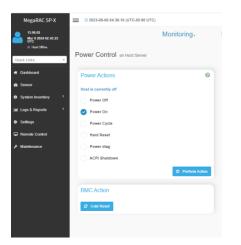
MegaRAC SP-X	€ 2023-08-06	04:50:09 (UTC-05:00 UTC)		🖉 🛦 🛛 US - Englist	h • BIOS	♦ Sync 😋 Refresh 💄 admin 🗸	í
13.06.02 Mar 8 2024 02:43:23 UTC • Host Online	NIC Invento	гу				# Home > NIC Inventory	
Quick Links *						Download SMBIOS file	
# Dashboard						0	J
🙆 Sensor	On Board						l
System Inventory Y	Location	Name	MAC				1
» CPU Inventory	Port0	1350 Gigabit Network Connection	74:56	5:3c:83:a8:1f			1
DIMM Inventory PCI Inventory	Port1	1350 Gigabit Network Connection	74:56	5:3c:83:a8:20			1
 HDD Inventory 							1
» NIC Inventory	Add In Card						1
» GPU Inventory			No information for NIC	C in card.			1
 FRU Information PSU Information 							1
Logs & Reports							
Settings							1
Remote Control							
https://129.182.202.13/#NIC_i	eventory info						,

Chapter 3. Deploying the system

3.1 Preparing OS deployment

3.1.1 Server Power on

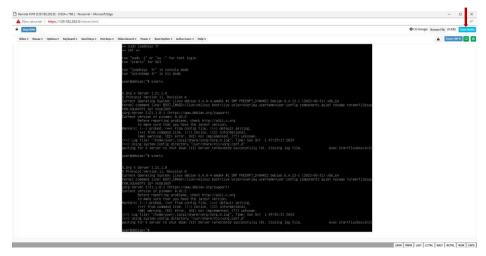
Check the status of your host, if off please Power On



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 Media to install your operating system



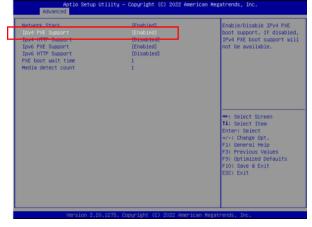
3.1.2.2 By using a Pre-boot eXecution Environment (PXE)

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 KVM" 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:



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 KVM" 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.

We recommend downloading from the Broadcom website the web-based application LSI Storage Authority (LSA) that enables you to monitor, maintain, troubleshoot, and configure the Broadcom MegaRAID card.