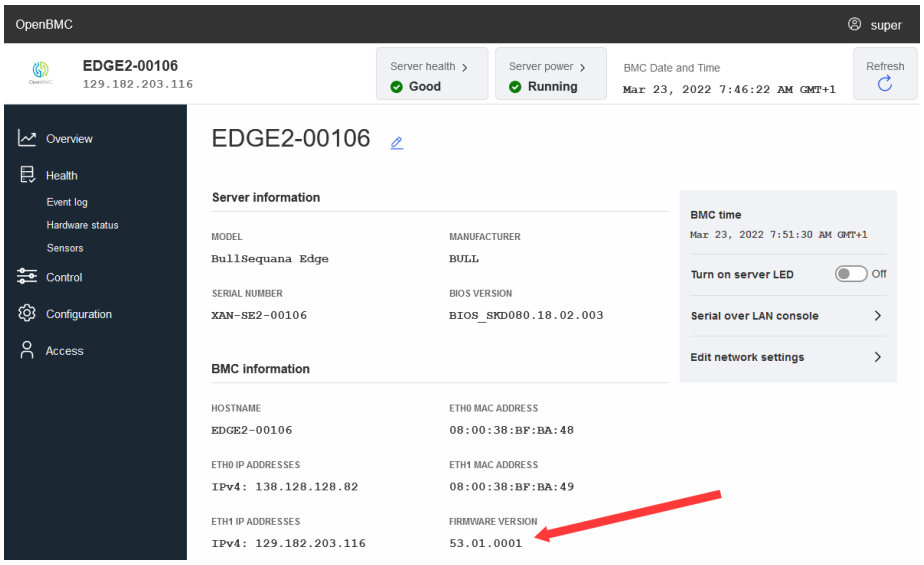
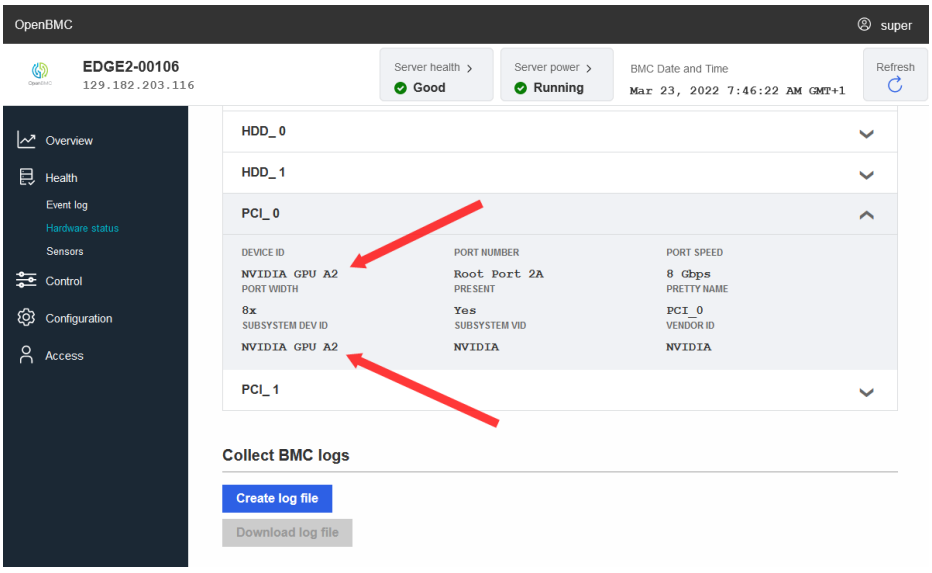
BullSequana Edge: caution with Nvidia card A2

To use the **A2 model Nvidia GPU PCI card** with the **BullSequana Edge**, at least, the TS version must be the last, **TS 018.03** from February 2022 (or a newer).

Looking for the **Firmware version** of the BMC, on the **Overview** (Home) web page at bottom right, you should find it. If it is **53.01.001**, you are well with **TS 018.03**.



The **BullSequana Edge** are delivered with a **Nvidia** GPU PCI card. The last delivered can be with a **A2** model from **Nvidia**
With **53.01.001** BMC version, you can verify the model of the **Nvidia** GPU card looking in **Health > Hardware status** web page for **PCI_0** or/and **PCI_1** at bottom:
The DEVICE ID and SUBSYSTEM DEV ID are **NVIDIA GPU A2**.



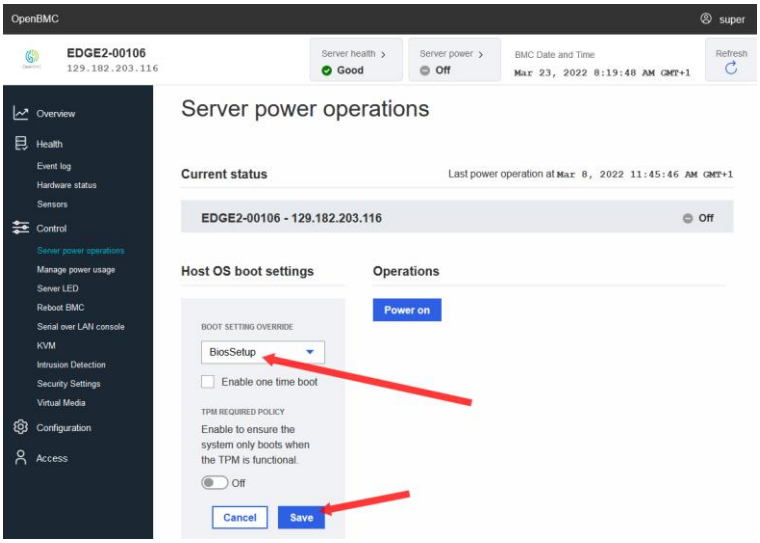
Note: At the bottom of this web page, you have the buttons to take a dump (**BMC Logs**) of your EDGE.

Another prerequisite exits, if your **A2** card is using the Firmware version **94.07.5B.00.55**, a **BIOS** parameter must be changed:
Advanced > Socket Configuration > Common RefCode Configuration > MMIO High Granularity Size
You have to customize it from **16G** to **256G**.

If the **BIOS** change is not made, the **A2** card will not being accepted.
Creating a **nvidia-bug-report.log**, you will find in it an error of the following type:

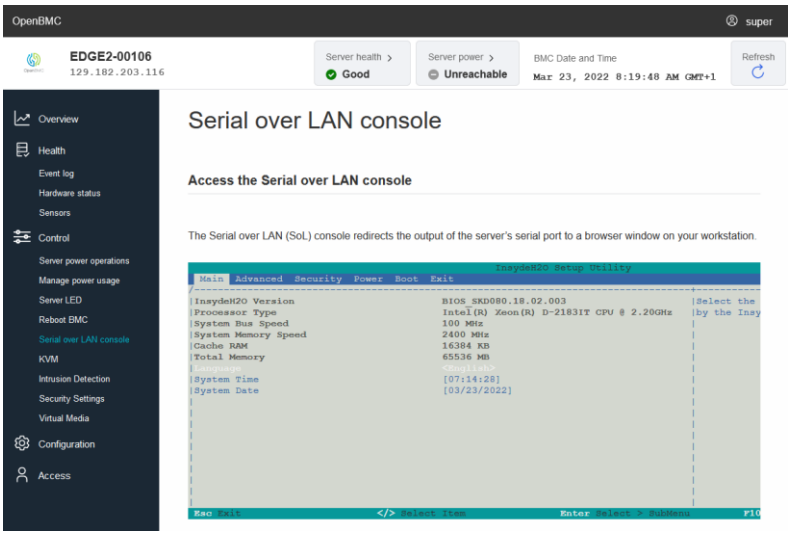
NVRM: This PCI I/O region assigned to your NVIDIA device is invalid:
NVRM: BAR1 is 0M @ 0x0 (PCI:0000:17:00.0)
NVRM: The NVIDIA probe routine failed for 1 device(s).
NVRM: None of the NVIDIA devices were initialized.

To change the **BIOS** parameters, you must stop the Host and then change the **BOOT SETTING OVERRIDE** to set it to **BiosSetup** and then use the **Save** button:

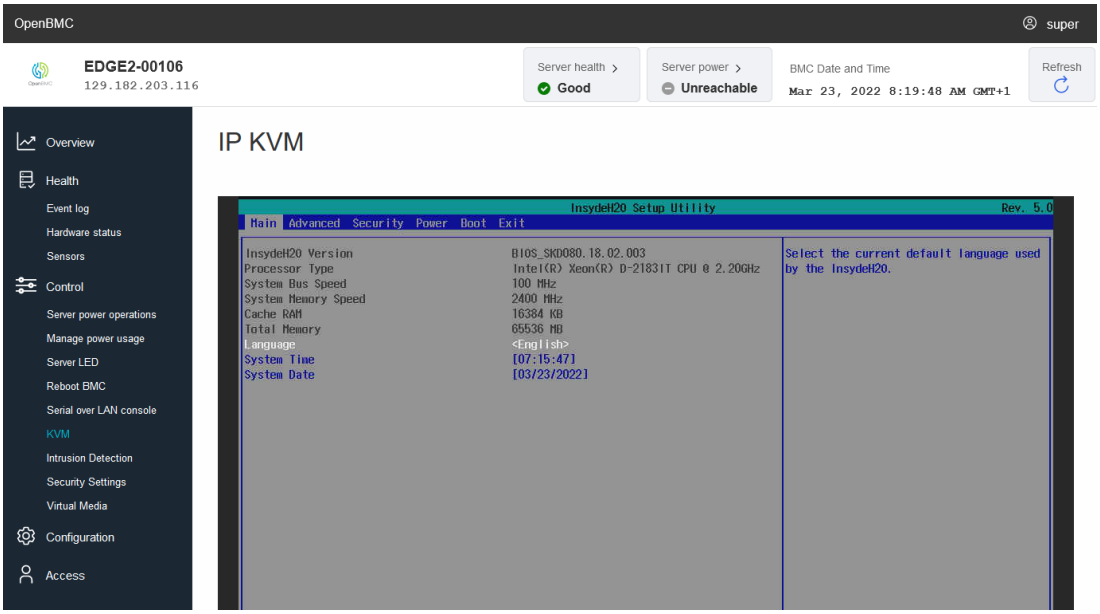


Then do the **Power on**…

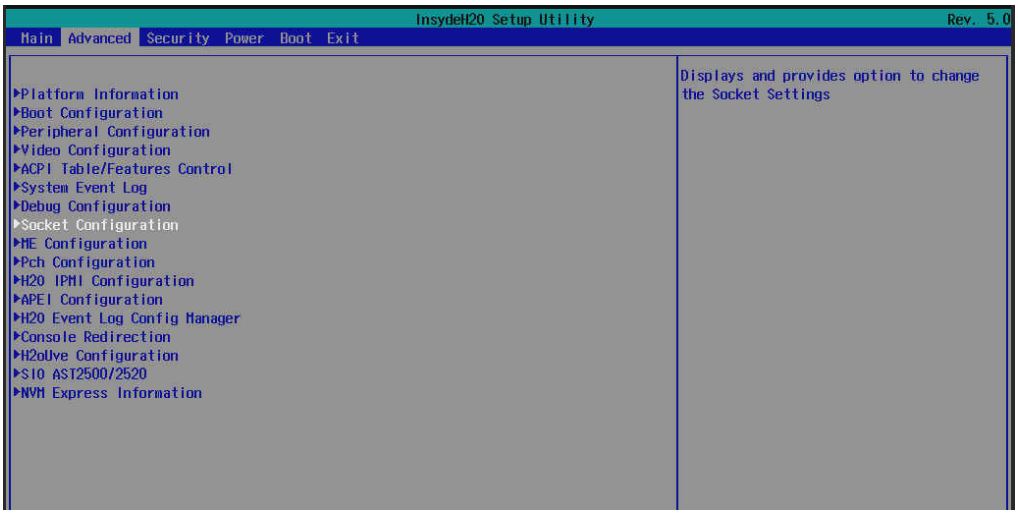
You can follow the start of the system looking the **Control > Serial over LAN console** till being on the **BIOS** setup (InsideH20 Setup Utility)



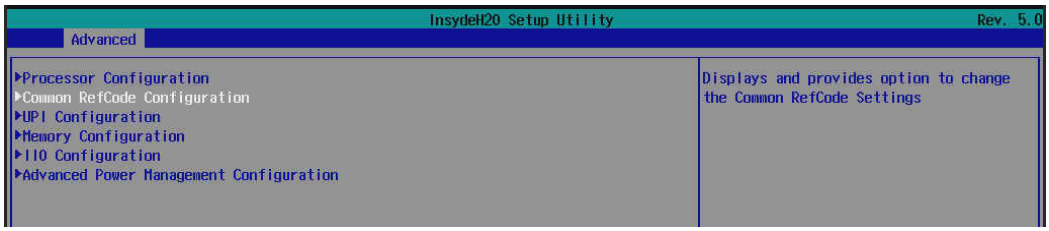
Then use the **Control > KVM** web page:



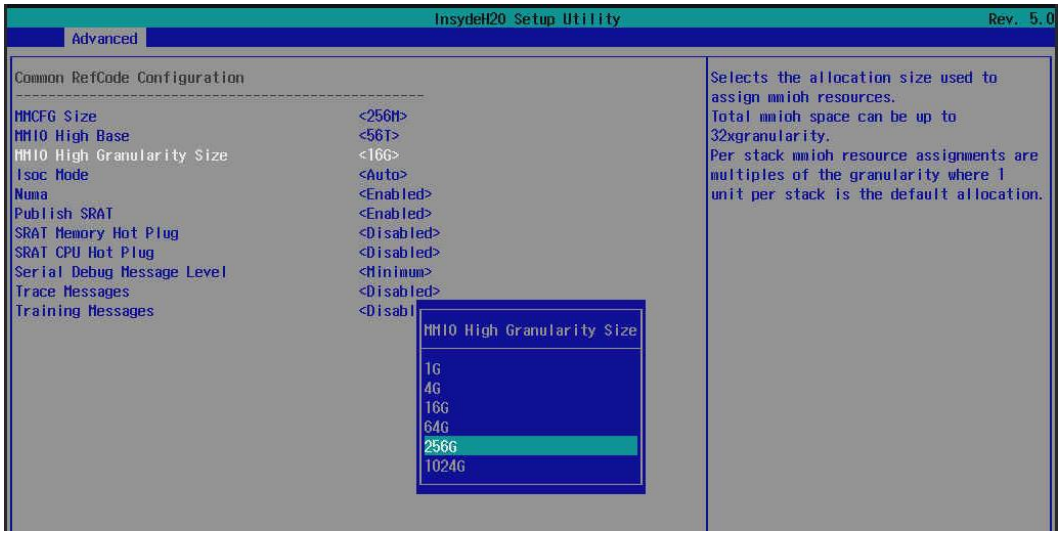
You will work now inside the **KVM** window. Use the right arrow key to go on **Advanced** tab and use the down arrow to be on **Socket Configuration**:



Do **Enter** and use the down arrow to be on **Common RefCode Configuration**:

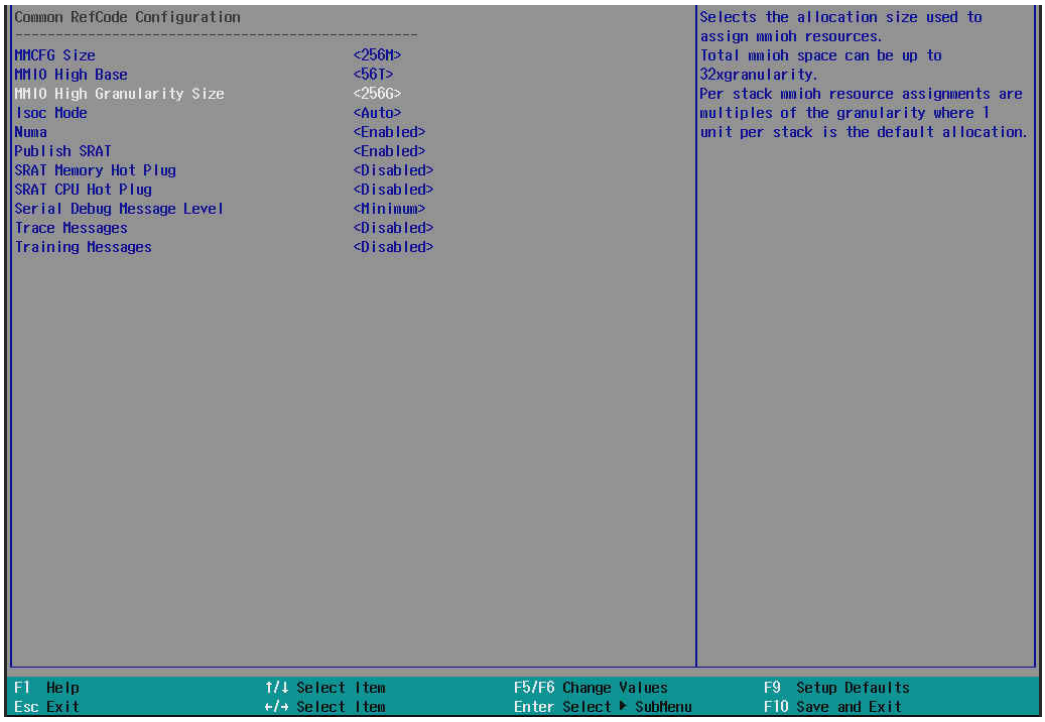


Again, do **Enter** and go down to be on **MMIO High Granularity Size** (You should have the default value **16G**)



With the last Firmware on **Nvidia** card, you must choose the **256G** value here.

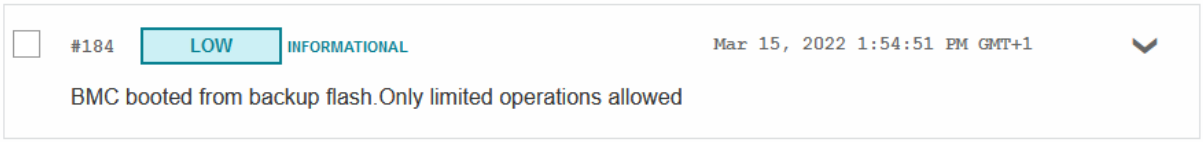
So do **Enter** and go down to select **256G** and do **Enter** to validate and then do **F10** to Save and Exit



And accept with **Enter** (Yes)

Note about BMC **53.01.001** delivered in **TS 018.03** you can see the following errors in the **Health > Event log**:

BMC booted from backup flash.Only limited operations allowed

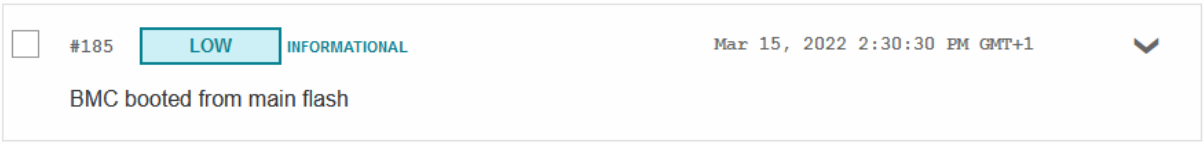


But it is a false Event!

This message should occur only if you push the **REC**overy button!

The good Event seen when the BMC has booted should be:

BMC booted from main flash



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