

Firmwares of Technical State 034.02

Multi-modules configurations must NOT be updated with this firmware package , reserved for updating mono-module novascale bullion servers,only.

BIOS, EMM & FPGA firmwares included in this package, can be used to update mono-module novascale bullion server operating with Technical Status 44.03 (or more recent TS)

TS 44.03 = BIOS 01.012.01 EMM 11.09.05 Build 1167

In other cases, get the full System Resources CD and the corresponding TSB, or get the package delivered with the TS 44.03, or contact your BULL representative

***** Versions of the current delivery *****

BIOS version: 02.13.7 build 033

EMM version : 11.12.00 Build 1207

(versions included in the Technical Status 034.02)

>>>>>>> **The technical state 034.02 replaces the technical state 034.01 and 044.03** <<<<<<<<<

***** IMPORTANT *****

DO NOT CUT OFF the main AC power on the novascale bullion server during the firmware update

The bios update procedure set the bios parameters to their default value.
The 'customized' settings must be configured again.

Procedure to update BIOS,FPGA & EMM in two steps:

- Step 1: first, update of the BIOS.

Note: a restart of the server under EFI Shell environment is required.

- Step 2: automatic update of FPGAs & EMM firmwares.

***** Begin procedure *****

- unzip the BIOS/EMM/FPGA package in a local directory (1) or at the root of a USB key (2).

- STEP 1: Update BIOS to version 02.13.7.033:

(1) if the BIOS/EMM package has been unzipped to a local directory :

. Mount the directory containing the unzipped files as a Virtual drive thru the Remote Console:

- click on "Virtual Media" icon,
- select "Local Folder" tab and use the "Browse" button to select the local directory and connect it as a "Virtual Drive"

(2) if the BIOS/EMM package has been unzipped to a USB key :

. plug the USB key in a USB port of the novascale bullion server

continuing:

- . reboot the novascale bullion server
- . press "space" on the keyboard when this message is displayed :
" Hit [Space] for boot Menu "
- . In the BIOS menu, enter the Boot Manager entry:
The Boot Manager screen displays the boot list,
move the cursor on the line "EFI Internal Shell", press Enter.
- . The BIOS update procedure will start automatically
The server is rebooted at the end of the BIOS update.
- The "Remote Console" screen is cleared (black screen),
then without waiting for the server restart, initiate a Force Power OFF:**
From the Hardware Console (SHC), folder "System Control" / Power / Power Management,
click on "Force Power OFF" button.
- Remove/disconnect the media containing the bios package to avoid starting another recovery.

- STEP 2: Update of FPGAs & EMM :

- . Prerequisite: THE novascale bullion SERVER MUST BE IN 'STANDBY' MODE (= POWER OFF).
- . From a Windows station (able to communicate with the BMC)
 - Open a DOS command window and Change Directory to the directory used to uncompress the package.
 - enter the command: upgradeFW.bat <IP_BMC> <USER> <PASSWORD>
example : upgradeFW.bat 10.10.10.1 super pass
 - the update of the two FPGAs and EMM is done in sequence,
then a BMC reset is initialized.
- . From a Linux station (able to communicate with the BMC)
 - Open a terminal window and Change Directory to the directory used to uncompress the package.
 - enter the command: upgradeFW.sh <IP_BMC> <USER> <PASSWORD>
example : upgradeFW.sh 10.10.10.1 super pass
 - the update of the two FPGAs and EMM is done in sequence,
then a BMC reset is initialized.

Wait for the BMC reboot, then reopen a System Hardware Console session.

Re-enable the integrated Ethernet controller # 1:

Entering the BIOS setup menu:

- Power on the machine using the Power Management menu in the *Server Hardware Console*.

In the remote console window, enter the BIOS by hitting Space on the keyboard when this message is displayed: " Hit [Space] for Boot Menu"

Then go to the pages :

Device Manager -> Advanced -> Boxboro Configuration -> General Configuration → Kawela (Module 0 IOH1) -> Press "Enter" to change the value to 'Enable', press "Enter" again, then save the change by "F10".

Restart the server to take in account the new parameters.

[illegible]

If the server doesn't reboot normally after updating EMM, then set again the QPI links speed. The procedure is described in the "Setting the QPI speed.pdf" documentation, available in the sub-directory "DOC".