

Date : 2012 July 24

The firmware packages of the present delivery can be used to update Emulex adapters on:
– **novascale bullion in mono-module or multi-module configuration.**

Note : To save space for Option rom, the type of Boot Code is “x86 BootBIOS”

Updating Firmware and Boot Code of Emulex adapters on novascale bullion servers.

There is one file per model of Emulex FC adapter:

- FW_LPe1150.ima applies to Emulex LPe1150 adapter
- FW_LPe1250.ima applies to Emulex LPe1250 adapter
- FW_LPe11002.ima applies to Emulex LPe11002 adapter
- FW_LPe12002.ima applies to Emulex LPe12002 adapter

Each .ima file contains :

- the utility to flash the adapter : doslpcfg.exe
- the firmware package : xxxxxxxx.all file
- the Boot Code package : xxxxxxxx.prg file

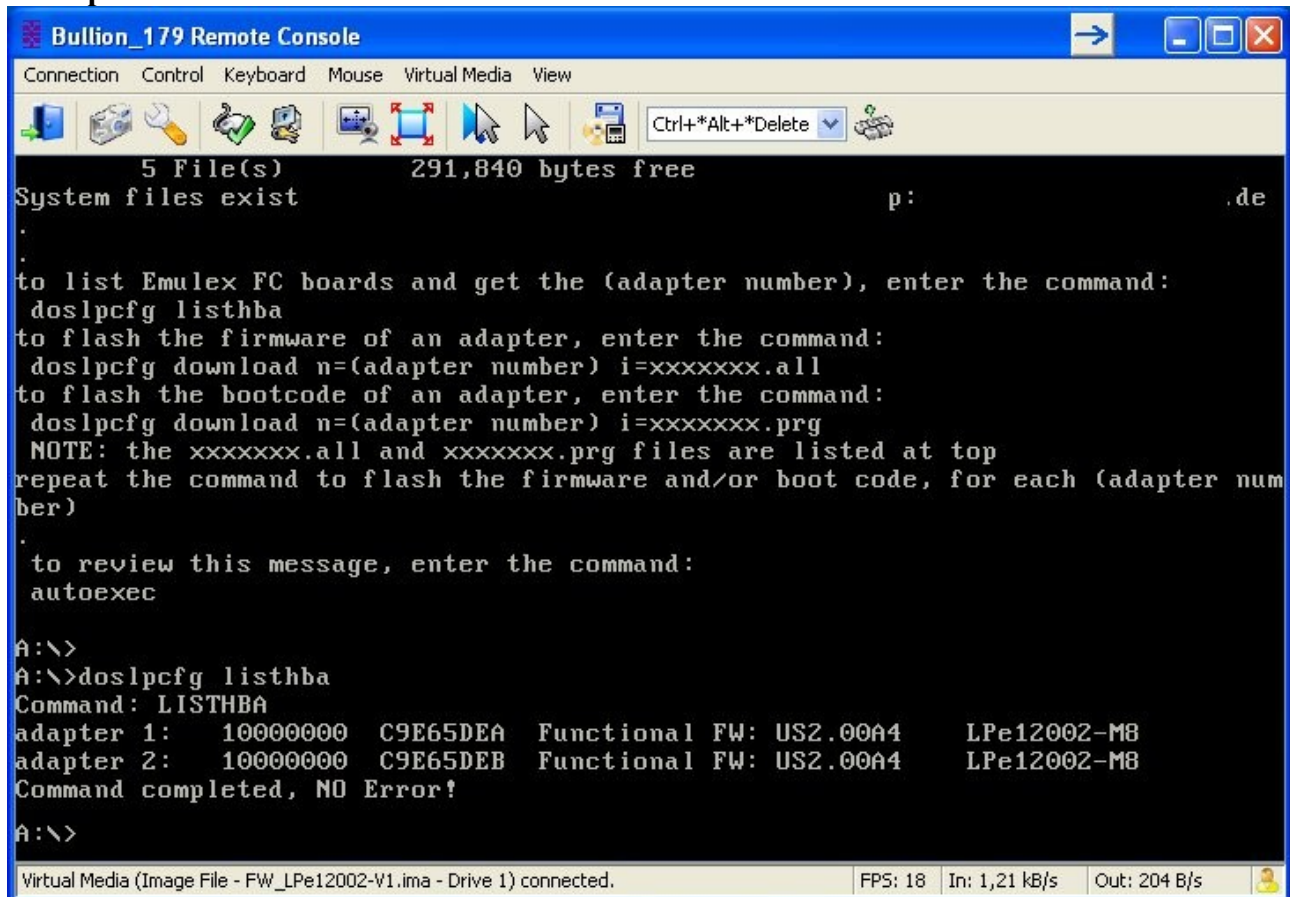
If the “boot on SAN” function is used , then it is mandatory to update the 'Boot code' as well as the firmware.

To proceed to the update :

Through the Remote Console, mount the appropriate .ima file as a Virtual Media device.
Reboot the bullion server using the corresponding Virtual Drive.

Note : the Virtual Drive linked to the .ima file will appear in the boot list as 'raritan' entry.
Then follows instructions displayed on the screen to update the adapters.

Example:

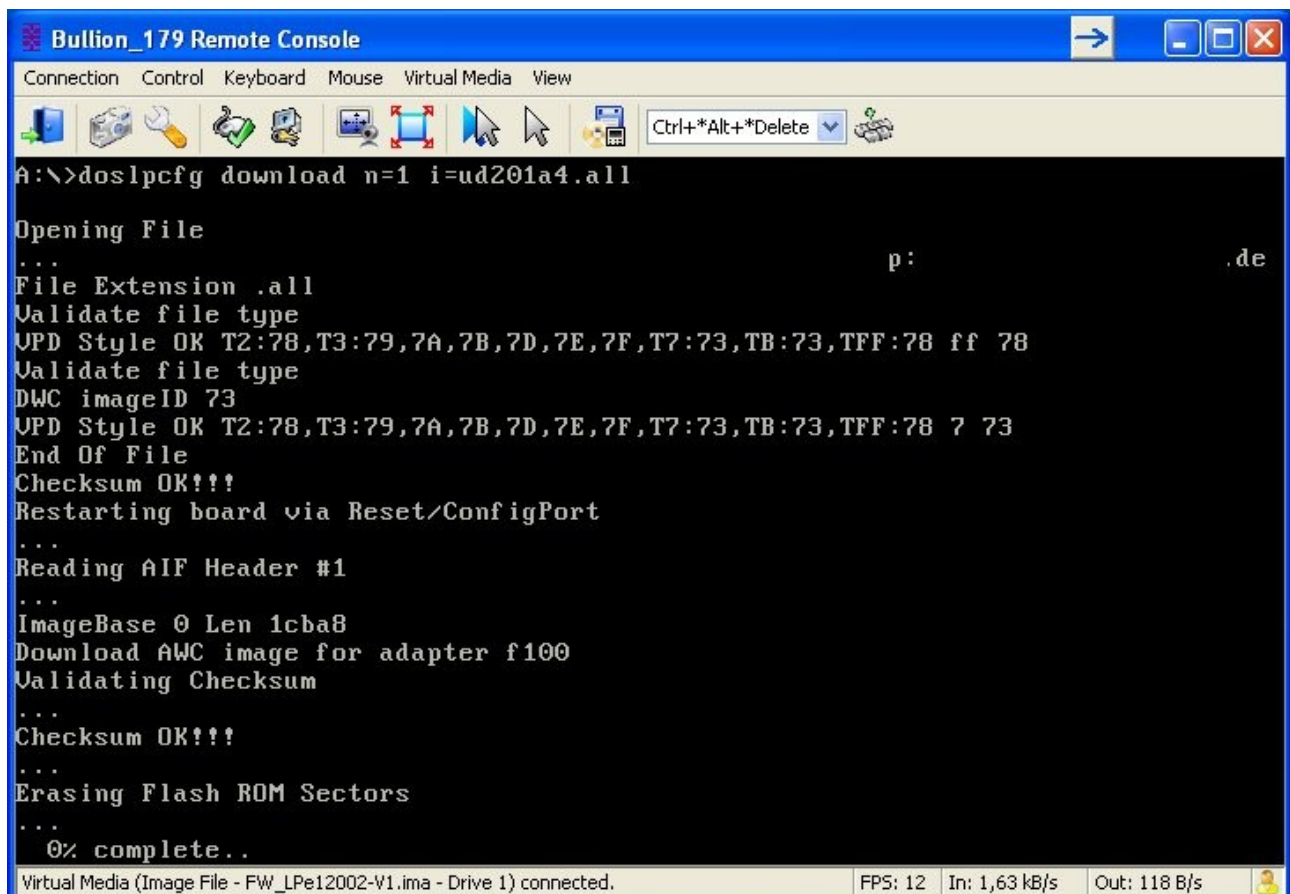


The screenshot shows the Bullion_179 Remote Console window. The title bar is blue with the text "Bullion_179 Remote Console" and standard window controls. Below the title bar is a menu bar with "Connection", "Control", "Keyboard", "Mouse", "Virtual Media", and "View". A toolbar contains icons for various functions and a dropdown menu set to "Ctrl+*Alt+*Delete". The main area is a black terminal window with white text. It shows a file listing at the top: "5 File(s) 291,840 bytes free". Below this, it says "System files exist". The user enters a series of commands: "doslpcfg listhba", "doslpcfg download n=(adapter number) i=xxxxxxx.all", and "doslpcfg download n=(adapter number) i=xxxxxxx.prg". A note explains that the xxxxxxx.all and xxxxxxx.prg files are listed at the top. The user then enters "autoexec". The output shows the command "LISTHBA" and a table of adapter information. The status bar at the bottom indicates "Virtual Media (Image File - FW_LPe12002-V1.ima - Drive 1) connected.", "FPS: 18", "In: 1,21 kB/s", and "Out: 204 B/s".

```
Bullion_179 Remote Console
Connection Control Keyboard Mouse Virtual Media View
5 File(s) 291,840 bytes free
System files exist
p: .de
.
to list Emulex FC boards and get the (adapter number), enter the command:
doslpcfg listhba
to flash the firmware of an adapter, enter the command:
doslpcfg download n=(adapter number) i=xxxxxxx.all
to flash the bootcode of an adapter, enter the command:
doslpcfg download n=(adapter number) i=xxxxxxx.prg
NOTE: the xxxxxxx.all and xxxxxxx.prg files are listed at top
repeat the command to flash the firmware and/or boot code, for each (adapter num
ber)
.
to review this message, enter the command:
autoexec

A:\>
A:\>doslpcfg listhba
Command: LISTHBA
adapter 1: 10000000 C9E65DEA Functional FW: US2.00A4 LPe12002-M8
adapter 2: 10000000 C9E65DEB Functional FW: US2.00A4 LPe12002-M8
Command completed, NO Error!
A:\>
```

Virtual Media (Image File - FW_LPe12002-V1.ima - Drive 1) connected. FPS: 18 In: 1,21 kB/s Out: 204 B/s



The screenshot shows the Bullion_179 Remote Console window. The title bar is blue with the text "Bullion_179 Remote Console" and standard window controls. Below the title bar is a menu bar with "Connection", "Control", "Keyboard", "Mouse", "Virtual Media", and "View". A toolbar contains icons for various functions and a dropdown menu set to "Ctrl+*Alt+*Delete". The main area is a black terminal window with white text. It shows the command "doslpcfg download n=1 i=ud201a4.all". The output shows the file being opened, validated, and downloaded. The status bar at the bottom indicates "Virtual Media (Image File - FW_LPe12002-V1.ima - Drive 1) connected.", "FPS: 12", "In: 1,63 kB/s", and "Out: 118 B/s".

```
Bullion_179 Remote Console
Connection Control Keyboard Mouse Virtual Media View
A:\>doslpcfg download n=1 i=ud201a4.all

Opening File
p: .de
...
File Extension .all
Validate file type
UPD Style OK T2:78,T3:79,7A,7B,7D,7E,7F,T7:73,TB:73,TFF:78 ff 78
Validate file type
DWC imageID 73
UPD Style OK T2:78,T3:79,7A,7B,7D,7E,7F,T7:73,TB:73,TFF:78 7 73
End Of File
Checksum OK!!!
Restarting board via Reset/ConfigPort
...
Reading AIF Header #1
...
ImageBase 0 Len 1cba8
Download AWC image for adapter f100
Validating Checksum
...
Checksum OK!!!
...
Erasing Flash ROM Sectors
...
0% complete..
```

Virtual Media (Image File - FW_LPe12002-V1.ima - Drive 1) connected. FPS: 12 In: 1,63 kB/s Out: 118 B/s

