

JS21 Blade Firmware Update Process Nutshell

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Setup/Preparatory Info (SoL setup):

1. connect PC/laptop to AMM#1 via network/crossover cable
2. change IP address of PC/laptop to match an address on the same subnet as the AMM
 - a. (i.e.: 192.168.70.3)
3. launch internet browser (IE/Firefox) and access address 192.168.70.125 (default address of the primary AMM)
4. login: USERID, password: PASSWORD (that's a "zero" in password)
5. select "no timeout" from the dropdown on the main screen & select "Start"
6. ensure that Serial over LAN (SoL) is enabled on all JS blades (click Power/Restart under Blade Control in left sidebar to view)
7. select Firmware VPD from the left sidebar & review the firmware levels of each blade, the AMM, and all switches – make note of f/w levels for each
8. compare with latest f/w levels (www.xseries.org) – note necessary updates

Time-Saver Tip: once connected to the console via your browser, open a telnet session & give the console's telnet configuration a lengthy timeout to save you headaches during any update process:

open 192.168.70.125

telnetcfg -T system:mm[1] -t 7200 (sets a timeout of 2 hours – pick anything >2mins)

Firmware Updates

-- AMMs

1. Download the latest AMM firmware (www.xseries.org)
2. Unzip the package
3. Read the readme that is packaged with the firmware to determine installation process
4. Navigate to "MM Tasks -> Firmware Update" to begin the update procedure
5. Reboot the AMM to have new firmware take effect.

-- Ethernet Switches

1. create a TFTP server on your local PC/laptop (SolarWinds is an excellent, free tool for this: <http://www.solarwinds.net>)
2. place your tarball into your TFTP root & rename it something simple **
3. in Windows, open up a telnet session & enter the following:
 - a. open 192.168.70.127 (the default IP of the first switch)
 - b. archive download tftp://your IP address/firmware.tar
 - c. wr mem
 - d. reload
 - e. repeat the same process for the other switch, changing the switch IP to 192.168.70.128; close all telnet sessions upon completion of the reload

-- Blade Firmware (incl. BMC/BASP)

1. insert Standalone Diagnostics CD (latest version can be found at xseries.org)
2. ensure the blade you wish to work on has control of the Media Tray
3. using PuTTY, or Windows telnet, access the primary AMM by opening IP 192.168.70.125
4. at the command prompt, enter `power -on -c -T system:blade[#]` to boot the blade to the diag CD

5. follow the initial prompts; when you are asked to select a terminal type, select [vt340](#)
6. select “Task Selection...”
7. select “Manage & Update System Flash”
8. select “Validate/Update System Firmware”
9. when the option for device is displayed, eject the SAD CD, and insert the Firmware CD you should have already created having the latest version on it (downloaded from [xseries.org](#))
10. hit F7 to continue with /dev/cd0 as your firmware device selection (should be the only one on-screen)
11. select “YES”, if you are sure you wish to continue when prompted & warned about a reboot
12. the process is successfully underway once you see that the blade is being rebooted (shown on-screen)
 - a. Time-Saver Tip: to save time on your updates, immediately upon seeing the “Rebooting...” on-screen you should change control of the Media Tray to the very next blade in your sequence of updates – you can then eject the CD, re-insert your Standalone Diagnostics CD, and restart the process on the next blade. This can save you as much as *10 minutes* per blade!!
 - b. Once the reboot has successfully completed, and the blade has been re-discovered in the Console browser, you should go to “Firmware VPD” in the left sidebar; from there, select your blade from the dropdown menu & select “Reload VPD”
 - i. This may take several tries to show as having been updated, so be patient & work on your other blade(s) before reloading the VPD

** the firmware for the Cisco switches is not in TAR format already, so you can convert it to a TAR using a free tool such as rawwritewin; then place it in your TFTP root directory for use whenever needed – see the README that comes with each piece of freeware for more information, if necessary