

**Release Notes**  
**switchUp 24+2R**  
**Firmware Revision v3.0.1r00**  
**Release Date: 2004 July 29**

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**Features Added Since 2.0.1r00**

- Rapid Spanning Tree functionality compatible with IEEE 802.3w is now available through the Advanced Management -> Rapid Spanning Tree menu.
  - The switch will default to Rapid Spanning Tree Protocol, provided other switches on that network are also using Rapid Spanning Tree.
  - Proper operation and minimum convergence time for RSTP are dependent on having correct settings for Edge ports, Point to Point ports, Path Costs, and Port Priorities under the appropriate submenus.
  - To force a switch to use only the original Spanning Tree Protocol, change the STP Version to “STP Compatible” under the Spanning Tree Protocol Configuration submenu.
  - For more information on Rapid Spanning Tree operation, configuration, and limitations, please see the IEEE 802.3w and IEEE 802.1d standards documents.
  - Notes:
    1. Pulling the RSTP root switch to simulate switch failure will result in packet delays of up to 20 seconds. The MAC address of the root switch can be found in the Spanning Tree Protocol Configurations submenu under “Designated Root.”
    2. On switch insertion and RSTP reconvergence, random packet delays on the order of 5-10 seconds are observed approximately 10% of the time.
    3. On switch uplink cable pulls affecting the RSTP root node and neighboring switches, random packet delays on the order of 5-10 seconds are observed approximately 10% of the time.
    4. To minimize reconvergence time you may also wish to force the speed and duplex of each port that is used to connect switches rather than waiting for autonegotiation to complete.

**Features Changed**

- None.

**Hardware/Software Dependencies**

- If using (Rapid) Spanning Tree Protocol on the 24+2 switch in a system with SPARCblade processors running upLink, please be sure the SPARCblade is running CCPUIe v1.2.6r01 or later driver package and CCPULink v1.2.5r00 or later.

**Upgrading the Firmware**

When uploading the image v3-0-0a00 for the first time, please follow one of the two procedures below.

- **To upload the firmware to the switch using NetCCN**

Note: It is recommended that you use TeraTerm Pro during firmware upload.

1. Assign an IP address to the NetCCN. You need to access the NetCCN via telnet.

2. Using TeraTerm Pro, telnet to the NetCCN. From the NetCCN, connect to the switch by using the 'connect' command.
3. Log in and reboot the switch.
4. Stop the booting process by pressing the ESC key.
5. On the boot CLI prompt, type "upload" to start the upload process.
6. Once the upload process has started, send the file using the Kermit protocol.
7. Start uploading the boot file. The boot file must be the first image to be uploaded. Once the boot file has been uploaded, the boot image will reset the switch. Then, you can upload the rest of the files, i.e. dbg, sw, cfg, and swcfg. It is not mandatory to reboot the switch after each file upload.
8. After uploading all the files, type "boot" to boot the switch. This starts the booting process and loads the newly uploaded image.
9. The switch will now have the factory default settings. All previous user settings are now gone.
10. Once you see the login prompt, you have successfully installed the entire package. Log in using "admin" as username and "123456" as password.

- **To upload the firmware to the switch using a laptop/desktop**

1. Set the switch serial baud rate to 115200. This will allow you to upload the files faster. You will need to connect to the front serial console of the 24+2 Switch. Use a straight through serial cable.
2. Save the settings and reboot the switch.
3. Stop the booting process by pressing the ESC key.
4. On the boot CLI prompt, type "upload" to start the upload process.
5. Once the upload process has started, send the file using the Kermit protocol.
6. Start uploading the boot file. The boot file must be the first image to be uploaded. Once the boot file has been uploaded, the boot image will reset the switch. Then, you can upload the rest of the files, i.e. dbg, sw, cfg, and swcfg. It is not mandatory to reboot the switch after each file upload.
7. After uploading all the files, type "boot" to boot the switch. This starts the booting process and loads the newly uploaded image.
8. Connect at the serial console at 9600 since the swcfg file resets the switch's settings to factory default.
9. Once you see the login prompt, you have successfully installed the entire package. Log in using "admin" as username and "123456" as password.

### **Fixed Issues**

- ccpu00049640 – When the 24+2 ESW is running RSTP, changing RSTP values causes the GUI to freeze.

### **Known Issues**

- Excessive traffic, such as in the case of a network loop, excessive broadcast traffic, etc., can cause interference with input to the serial console.