

Appendix A. SOFTWARE UPGRADE

A.1 Introduction

The MR-S2 receives upgrades via Trivial File Transfer Protocol (TFTP) transmission. Comtech EF Data recommends using the Solarwinds TFTP server application (available at <http://support.solarwinds.net/updates/SelectProgramFree.cfm>) for upgrading the product.

This upgrade includes 3 files:

- *mrs2.bin* (application)
- *mrs2fpga.bit* (FPGA)
- *redboot_mr38400.bin* (boot loader)



It is important that all 3 files are updated. The ability to update the boot loader (redboot_mr38400.bin) file from the web and terminal interfaces is a new feature of the 1.4.2 software, so please update in this order:

- 1) Update the application (mrs2.bin) and FPGA (mrs2fpga.bit) files first*
- 2) Reboot*
- 3) Update the boot loader (redboot_mr38400.bin)*
- 4) Reboot*

Once the TFTP server is enabled and the new file (**Application** or **FPGA** or **Redboot**) has been copied to the TFTP server, follow the procedures described in sections A.2 and A.3 to upgrade the unit.

A.2 Web Interface

Access the **Administrative Configuration** menu:

Digicast MediaRouter S2-ASI

| | | | | | |
|-------------------------|------------------------|----------------------------|----------------------------|------------------------|-----------------------|
| HOME | ADMIN | REDUNDANCY | NETWORK | EGRESS | IGMP |
| UNICAST | MPE/IP | MPEG-TS | SVC FILTER | TUNER | STATS |

Tuner Statistics

| Lock | Es/No | Eb/No | Power |
|------|--------|--------|--------|
| P | 29.8dB | 27.1dB | -29dBm |

Administrative Configuration

[\[SNMP\]](#) [\[VLOAD\]](#) [\[SYSLOG\]](#)

Unit Name: * CMR-5990
 OS Version: eCOS 2.0
 App Version: 1.4.2
 FPGA Version: 2.0.0.12
 User Name: * comtech
 Password: *
 Confirm Password: *
 System Contact: * comtech
 System Location: * comtech
 Enable Telnet: * ☒

Submit Cancel **Reset Unit** Display Config

Press submit to make changes
 * Indicates a required field

Update Firmware

Unit TFTP Server IP Address: *
 Image Type: * Application
 Enter server IP and select type, then press Update
 * Indicates a required field

Update

| Step | Procedure |
|------|--|
| 1 | In the Update Firmware section, enter the Unit TFTP Server IP Address . |
| 2 | Select Application or FPGA or Redboot for the Image Type to be upgraded. |
| 3 | Select Update . The software update will begin to download. |



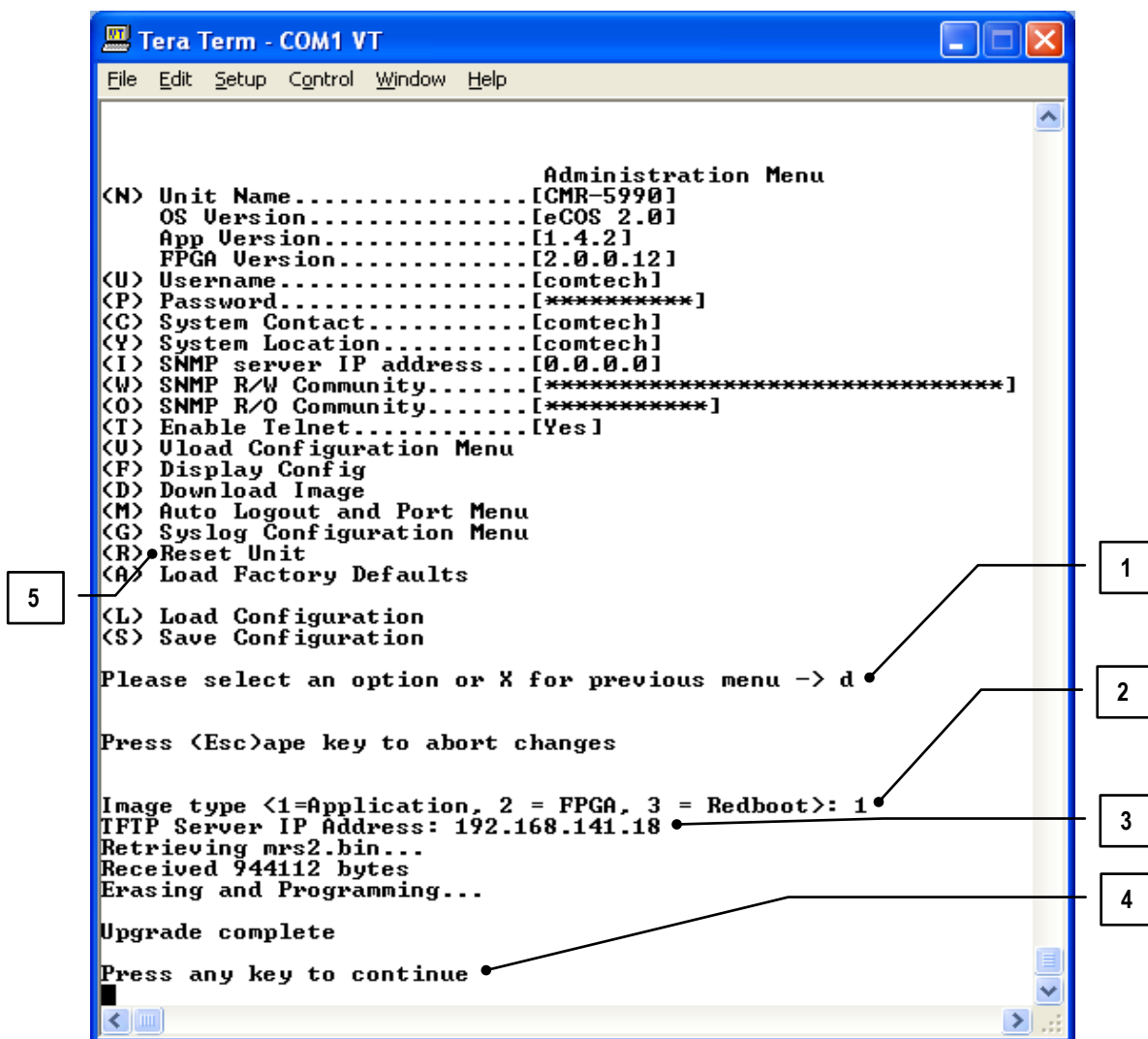
IMPORTANT


Do NOT power down the unit during the upgrade process.

- 4 Once the unit is upgraded, select **Reset Unit**.

A.3 Telnet or Terminal Interface

Access the Admin Menu:



| Step | Procedure |
|---|--|
| 1 | Select (D) for Download Image. |
| 2 | For "Image type", enter: 1 for Application or 2 for FPGA or 3 for Redboot . |
| 3 | Enter the TFTP IP server address. The software update will begin to download. |
|  Do NOT power down the unit during the upgrade process. | |
| 4 | When the upgrade is complete, Press any key to continue . |
| 5 | Select (R) for Reset, then 'Y' to confirm the reset |

[illegible]