

## Software Image Upgrade Procedure

### Purpose

The following document describes the steps required to upgrade the flash system with new binary images for **v2.4.3** release.

**If upgrading from 2.4.2, upgrade idu\_fw\_v243.bin file only.**

**If upgrading from an older version, upgrade all bin files**

The applicable binary images are:

	Image	Image FileName	Version
1:	idu_fpga	idu_fpga_v243.bin	00220409
2:	idu_os	idu_os_v242.bin	2p6r14b3D02251001
3:	idu_fw	idu_fw_v242.bin	2p4r3D022510
4:	idu_pic	idu_pic_v243.bin	25
5:	idu_modem	idu_modem.bin	42
6:	odu_fw	odu_fw.bin	1F

### Steps

1. Note down the current version of the firmware loaded in the radio (CLI version)
2. Connect Management Ethernet port to PC.
3. Configure an IP address in unit if not already done.
4. Start a Telnet session.
5. Turn TFTPd service on the Radio ON with commands:  
**(trango-config)tftpd on**
6. Send New Firmware Image to target Radio.

In DOS window, type command:

```
dos> tftp -i [ip address] put [Image_FileName]
```

ip address	IP Address of the Radio.
Image_FileName	as shown above in Section 1

7. Turn OFF tftpd on the Radio  
**(trango-config)tftpd off**

8. After the file/s is/are transferred on the Radio, the image/s need to be burned on the flash in the system to the appropriate flash partition.

Use the “bootimage” command under the config mode on the radio (see example).

**(trango-config) bootimage upgrade 1** // for idu os image upgrade

**(trango-config) bootimage upgrade 2** // for idu fw image upgrade

**(trango-config) bootimage upgrade 5** // for odu fw image upgrade

The command prompt will return with SUCCESS once the image is copied to flash.

If the prompt returns a FAIL, try running the command again

The new image will take effect once the radio is rebooted.

9. Reboot the radio:

**(trango-config) reboot**

10. Check the new version on the system with CLI command “version”. It should match with the versions listed below

IDU FPGA version: 00220409

**IDU OS version: 2p6r14b3D02251001**

**IDU FW version: 2p4r3D022510**

IDU PIC version: 25

IDU Modem version: 42

**ODU FW version: 1F (all model)**

*\*ODU FW version is 1F for all the ODU Models*

**\*If IDU Modem version is older than 42, please refer to Modem SW upgrade instructions in the v2.0 release**

**\*Image upgrade for Modem/ODU will cause a link loss since its need to be powered cycle during the image upgrade process (bootimage upgrade 4/5/6)**

**\*Image upgrade for other images will be copied to flash during image upgrade (bootimage upgrade 0/1/2/3”) and will not affect the working link until the system is rebooted / power cycled.**

\* If upgrade to the odu firmware on one link (both remote and local unit), make sure to issue the bootimage upgrade 5 with at least 10 second apart between the two units (remote first). There is a low possibility that the ODU image upgrade will fail in the first attempt. Re-issuing the image upgrade command the 2nd time will make it work.

\*Note: Please follow all the instructions as listed above and ensure to upgrade all images before issuing a reboot command. In the event of a version mismatch (local/remote/idu/odu) due to a power failure or improper firmware load, the system is NOT guaranteed to work. First try to revert back to the previous version by executing the toggle command:

**(trango-config) bootimage toggle**

**(trango-config) reboot**

This procedure will revert the radio's firmware back to the previous version. Once on the previous version, try the entire upgrade procedure again; tftp files, execute bootimage upgrade, and reboot command.

If the upgrade still fails, contact Trango Product Support @ 858.391.0010 or via e-mail at [techsupport@trangosys.com](mailto:techsupport@trangosys.com) for further assistance. **Serial console remote access** to the IDU's might be required in the event of such failure.

**Also, please do not make any implicit assumptions; in case of any concern please contact Trango Product support for clarification.**