

## Reflashing MBT-5000 Converter

Directions for upgrading the MBT-5000 firmware are included in this readme.txt file. For any earlier version, please contact the factory.

1. Identify the reflashable product, firmware number, and version that you wish to download.

From the front panel display, you can find the firmware information within the <Utility> <Firmware> <Information> <Image#1, Image#2 or Bulk> menu tree. Using serial remote control, you can query the firmware revision levels with the <O/SWR? command.

2. Create a temporary directory (folder) on your PC.

Windows: Select File > New > Folder > and rename the New Folder to "temp" or another convenient and unused name. Assuming "temp" works, you should now have a "c:\temp" folder created. Note: the c: is the drive letter used in this example. Any valid writable drive letter can be used.

CMD Prompt: At the command prompt (c:\>) type "MD temp" without quotes (Note: MD stands for make directory). This is the same as creating a new folder from within Windows. Assuming this works, you should now have a "c:\temp" subdirectory created where c: is the drive letter used in the example.

3. Download the correct firmware file to this temporary folder.

Access the download server with the flash firmware data files link,  
<http://206.223.8.10/linksite/flashupgrades/MBT-5000/>

About Firmware Numbers, File Versions, and Formats:

The flashable files on the download server are organized by product first, then by firmware number, (make sure you know the correct firmware number - see step 1) version if applicable, and release date. The bulk firmware for the MBT-5000 will be MBT-5000\_Bulk\_v\*\_\*\_\*.bin (where the asterisks show revision, version and date).

The current version firmware release is provided. If applicable, one version prior to the current release is also available. Be sure to identify and download the desired version.

The downloadable files are stored in two formats: \*.exe (self extracting) and \*.zip (compressed).

Some firewalls will not allow the downloading of \*.exe files. In this case, download the \*.zip file instead.

For additional help with "zipped" file types, refer to "pkzip for windows", "winzip", or "zip central" help files. Pkzip for DOS is not supported due to our file naming conventions.

4. Unzip the files in the temporary folder on your PC.

At least 3 files should be extracted:

- a. MBT-5000\_Bulk\_v\*\_\*\_\*.bin, where "\*\_\*\_\*" is the version (bulk image file).
- b. MBT-5000ReleaseNotes\_vX-X-X.doc, where "X" is the version (release notes).
- c. README.TXT installation notes (this file)

5. Connect the client PC to the MBT-5000 via a hub or a switch, or directly to a PC with a crossover cable.

Verify the communication and connection by issuing a "ping" command to the device. You can find the IP address of the device either remotely using the <0/IPA? command or from the front panel with the <Config> <Remote> <Ethernet> <Address> menus.

To PING and FTP from DOS, press the "Start" button on the Windows toolbar, and select the "Run..." option. From Win95 or Win98, type "command". From WinNT, Win2K or WinXP, type "cmd". You can also use the "DOS Prompt" or "Command Prompt" icons in the Start Menu. Now change to the temporary directory you created earlier with "cd C:\temp". A quick "dir" will show you the files you downloaded.

6. Initiate an FTP session with the device. The example is with a DOS window.

- a. From the PC, type "ftp xxx.xxx.xxx.xxx" where "xxx.xxx.xxx.xxx" is the IP address of the MBT-5000.
- b. Just press <Enter> for admin user name and password to complete login.
- c. Verify your FTP transfer is binary by typing "bin".
- d. Type "prompt" then type "hash" to facilitate the file transfers.

7. Transfer the files.

Type "put MBT-5000\_Bulk\_v\*\_\*\_\*.bin bulk:" to begin the file transfers. The destination "bulk:" must be all lower-case. It will take approximately more than a minute to transfer the file depending on network traffic.

8. Verify the file transfer.

a. The PC should report that the file transfer has occurred, and the display on the device will stop reporting "REFLASHING.... PLEASE WAIT!".

b. Terminate the FTP session by typing "bye" and closing the DOS window.

c. Verify that the new file loaded using the procedure in step 1.

9. Change the desired image to boot using the <Utility> <Firmware> <Select> <left or right arrow to change to the other image>, then reboot the device.

10. Verify the new software versions are booting by observing the following messages on the device display:

Comtech EF Data MBT-5000 Firmware Version: X.X.X.