

# CME-5010/CME-5110 VERSION 1.7.4 UPGRADE INSTRUCTIONS

## Version 1.7.4 Upgrade Files

Version 1.7.4 of the firmware is an application upgrade only. Therefore, the user will only be required to upgrade the “Application” only. There will be no need to perform an upgrade of the FPGA firmware.

## CME-5010/CME-5110 Upgrade Procedure

The CME-5010/CME-5110 is upgraded via Trivial File Transport Protocol (TFTP) and can be upgraded by one of three methods; a locally attached terminal or remotely logging in via the Web or Telnet interface to request the upgrade file from a TFTP server. From the Admin page, select Download Image on the telnet window or terminal and Update Firmware on the web interface and then select the preferred method.

The CME-5010/CME-5110 is enabled to receive an upgrade via 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.



*The user will be instructed whether to select **Application** or **FPGA** code in the download instructions provided by CEFD when new code is provided.*

Once the TFTP server is enabled and the new file (**Application** or **FPGA**) has been copied to the TFTP server, the procedures outlined in sections 2.1 and 2.2 may be used to upgrade the unit.

## 2.1 WEB INTERFACE

Access the **Administrative Configuration** menu (Figure A-1):

- a) In the **Update Firmware** section, enter the **Unit TFTP Server IP Address**.
- b) Select **Application** or **FPGA** for the **Image Type** to be upgraded.
- c) Enter a valid username and password in the **Login Required** section (below the **Update Firmware** section) then select **Update**. The software update will begin to download. **Note that the login on the page is not present in later (1.7.2 and up) versions.**



**Do NOT power the unit down during the upgrade process.**

- d) When the update is complete, the message “**Press any key to continue**” will be displayed.
- e) Once the unit is upgraded, reset the unit by entering a valid username and password in the first **Login Required** section, then selecting **Reset Unit**.

The screenshot shows the Comtech EF Data web interface for a Digicast CME-5100. The browser window is titled "Comtech EF Data - Microsoft Internet Explorer" and the address bar shows "http://192.168.2.203/admin.htm". The page has a navigation menu with options: Home, Admin, Network, Egress, PSI, SMTPF-325M, Routing, Advanced Routing, IGMP, Redundancy, and State. The main content area is titled "Administrative Configuration" and contains several sections:

- Administrative Configuration:** Fields for User Name (CME-5000), OS Version (eCOS 2.0), App Version (1.7.1), and FPGA Version (2003.11.11 (ASD)). Below these are fields for User Name (corntech), Password, Confirm Password, System Contact (corntech), System Location (corntech), SNMP R/O Community, SNMP R/W Community, and SNMP server IP address (0.0.0.0). There are checkboxes for "Enable Telet" and "Enforce QoS Egress BW Roles".
- Login Required:** Fields for User Name and Password, with Submit, Cancel, and Save Config buttons. A note below reads: "Enter new username and password, then enter login credentials and press submit to make changes. When you have made all necessary changes, click 'Save Config' to save all changes to permanent storage. \* Indicates a required field".
- Update Firmware:** Fields for Unit TFTP Server IP Address and Image Type (Application selected).
- Login Required:** Fields for User Name and Password, with Update and Reset Unit buttons. A note below reads: "Enter server IP and select type, then enter login credentials and press submit to make changes. \* Indicates a required field".

Figure 1. TFTP Download (via Web)

## 2.2 TELNET OR TERMINAL INTERFACE

Access the Admin Menu (Figure A-2):

- a) Select **(D)** for **Download Image**.
- b) At the “**Image type**” prompt, enter **1** for **Application** or **2** for **FPGA**.
- c) Enter the TFTP IP server address. Once the TFTP IP server address is entered, the software update will begin to download.



**Do NOT power the unit down during the upgrade process.**

- d) When the update is complete, the message “**Press any key to continue**” will be displayed (Figure A-3).
- e) After the unit has been upgraded, reset the unit by selecting **(R)** for Reset and ‘**Y**’ to confirm the reset.

```
Tera Term - COM1 VT
File Edit Setup Control Window Help

Administration Menu
<N> Unit Name.....[CME-5000]
    OS Version.....[eCOS 2.0]
    App Version.....[1.7.1]
    FPGA Version.....[2003.11.11 <ASI>]
<U> Username.....[comtech]
<P> Password.....[*****]
<C> System Contact.....[comtech]
<Y> System Location.....[comtech]
<I> SNMP server IP address.....[0.0.0.0]
<W> SNMP R/W Community.....[*****]
<O> SNMP R/O Community.....[*****]
<T> Enable Telnet.....[No]
<Q> Enforce QoS Egress BW Rules[No]
<F> Display Unit Configuration
<M> Port Configuration Menu
<R> Reset Unit
<D> Download Image
<A> Load Factory Defaults

<L> Load Configuration
<S> Save Configuration

Please select an option or X for previous menu -> █
```

Figure 2. TFTP Download (via Terminal)

```
Tera Term - COM1 VT
File Edit Setup Control Window Help

Administration Menu
(N) Unit Name..... [CME-5000]
  OS Version..... [eCOS 2.0]
  App Version..... [1.7.1]
  FPGA Version..... [2003.11.11 (ASI)]
(U) Username..... [comtech]
(P) Password..... [*****]
(C) System Contact..... [comtech]
(Y) System Location..... [comtech]
(I) SNMP server IP address..... [0.0.0.0]
(W) SNMP R/W Community..... [*****]
(O) SNMP R/O Community..... [*****]
(T) Enable Telnet..... [No]
(Q) Enforce QoS Egress BW Rules [No]
(F) Display Unit Configuration
(M) Port Configuration Menu
(R) Reset Unit
(D) Download Image
(A) Load Factory Defaults

(L) Load Configuration
(S) Save Configuration

Please select an option or X for previous menu -> d

Press (Esc)ape key to abort changes

Image type <1=Application, 2 = FPGA>: 1
TFTP Server IP Address: 192.168.11.254
Retrieving mencap.bin...
Received 893808 bytes
Unlocking...
Erasing...
Programming...
Locking...
Upgrade complete

Press any key to continue
```

Figure 3. TFTP Download Complete (via Terminal)

Contact CEFD Network Product Support [cdmipsupport@comtechefdata.com](mailto:cdmipsupport@comtechefdata.com) if there are any difficulties or questions about upgrading your *CME-5010/5110*.