Comtech EF Data

CDM-625/A Firmware Upgrade Instructions

Revised 2015-05-20

=======================================

Applicable Firmware

=======================================

CDM-625 Base Modem

FW-0020534U-2.5.1.bin (CDM-625 Base Modem version 2.5.1 or later)

CDM-625A Base Modem

FW-0020731F-1.4.1.bin (CDM-625A Base Modem version 1.4.1 or later)

Packet Processor

FW-0000342T-1.4.9.bin (Packet Processor without AES encryption)

NOTE: When updating firmware on modems with the IP Packet Processor present,

upload both the base modem and packet processor firmware, and select the

firmware slots prior to rebooting the modem.

Base Modem Upgrade Instructions

=======================================

NOTE: When updating CDM-625 firmware to current from FW-12864AC

version 1.5.3 or prior, the firmware MUST be loaded on the modem over

FTP on the modem three times. After each FTP transfer, the active

image must be switched and the modem rebooted from the other image.

NOTE: Modem redundancy features must be disabled prior to upgrade

1. Identify the current version and slot

Front Panel location:

Utility -> Firmware -> Base-Modem

Web Server Interface location:

Admin -> Firmware -> Base Modem

NOTE: See CDM-625/CDM-625A User Manual for instructions on other user

interfaces.

NOTE: The firmware will be loaded to the slot that the modem is NOT

currently booted from.

2. Create a temporary folder and extract the firmware .zip file to it.

   (this example will use c:\firmware)

3. Open a Windows Command prompt.

   3a. (Windows XP) Click Start > Run > Type 'cmd' > OK

   3b. (Windows 7) Click Start > Type 'cmd' > Click 'cmd.exe'

4. Navigate to the temporary directory.

   type "cd \firmware"

5. Confirm that the modem is reachable over the network using ping.

   type "ping xxx.xxx.xxx.xxx"

   (where xxx.xxx.xxx.xxx is the IP address of the CDM-625/CDM-625A.)

6. Initiate the FTP session with the modem

   6a. Type "ftp xxx.xxx.xxx.xxx"

      (where xxx.xxx.xxx.xxx is the IP address of the CDM-625/CDM-625A.)

   6b. Enter the Admin username and password to login

   6c. Type "bin" to set binary transfer mode

   6d. Type "hash" to show upload progress

FTP command for modems with a Packet Processor installed and

enabled:

6e-1. Type "put FW-0020534U-2.5.1.bin" (for CDM-625)

Type "put FW-0020731F-1.4.1.bin" (for CDM-625A)

FTP command for modems WITHOUT a Packet Processor, or Packet

Processor disabled:

6e-2. Type "put FW-0020534U-2.5.1.bin bulk:" (for CDM-625)

Type "put FW-0020731F-1.4.1.bin bulk:" (for CDM-625A)

The firmware upgrade process will take up to 10 minutes to program the

flash after the FTP transfer is compelte. The modem will display

"Bulk FTP done." on the front panel after the flashing process is complete.

Proceed to the next step after this occurs, or 10 minutes after the

FTP transfer has completed.

7. Verify the new firmware has been uploaded using the methods in Step 1.

8. Switch the active firmware slot to the newly uploaded firmware

Front Panel location:

Utility -> Firmware -> Base-Modem -> Select

Web Server Interface location:

Admin -> Firmware -> Base Modem

9. If the Packet Processor is present, proceed to the Packet Processor

Upgrade Instructions section below, otherwise, reboot the modem to

complete the upgrade process.

Packet Processor Upgrade Instructions

=======================================

NOTE: Modem redundancy features must be disabled prior to upgrade

NOTE: The packet processor must be enabled

1. Identify the current version and slot

Front Panel location:

Utility -> Firmware -> Packet-Processor

Web Server Interface location:

Admin -> Firmware -> Packet Processor

NOTE: See CDM-625 User Manual for instructions on other user interfaces.

NOTE: The firmware will be loaded to the slot that the modem is NOT

currently booted from.

2. Create a temporary folder and extract the firmware .zip file to it.

(this example will use c:\firmware)

3. Open a Windows Command prompt.

3a. (Windows XP) Click Start > Run > Type 'cmd' > OK

3b. (Windows 7) Click Start > Type 'cmd' > Click 'cmd.exe'

4. Navigate to the temporary directory.

type "cd \firmware"

5. Confirm that the modem is reachable over the network using ping.

type "ping xxx.xxx.xxx.xxx"

(where xxx.xxx.xxx.xxx is the IP address of the CDM-625/CDM-625A.)

6. Initiate the FTP session with the modem

6a. Type "ftp xxx.xxx.xxx.xxx"

(where xxx.xxx.xxx.xxx is the IP address of the CDM-625/CDM-625A.)

6b. Enter the Admin username and password to login

6c. Type "bin" to set binary transfer mode

6d. Type "hash" to show upload progress

6e. Type "put FW-0000342T-1.4.9.bin"

The firmware upgrade process will take up to 10 minutes to program the

flash after the FTP transfer is compelte. The modem will display

"Packet Processor upgrade finished." on the front panel after the flashing

process is complete. Proceed to the next step after this occurs, or 10

minutes after the FTP transfer has completed.

7. Verify the new firmware has been uploaded using the methods in Step 1.

8. Switch the active firmware slot to the newly uploaded firmware

    Front Panel location:

        Utility -> Firmware -> Packet-Processor -> Select

    Web Server Interface location:

        Admin -> Firmware -> Packet Processor

9. Reboot the modem to complete the upgrade process.