



TECHNICAL SUPPORT NOTE

Total Access 850 RCU TDM Upgrade Procedure

Introduction

As features are added to the TA850 RCU, software upgrades may be necessary. The TA850 RCU has flash memory allowing the software to be upgraded from a file provided by ADTRAN. The current version of the software can be found in the "System Info" menu.

The software can be upgraded using HyperTerminal, or any terminal emulation package supporting the XMODEM protocol. It can also be upgraded using TFTP and a TFTP server. Please proceed to the appropriate section for further instruction.

If a terminal emulation package other than HyperTerminal is selected, please see the instructions supplied with the package to set up an XMODEM connection.

Attention: If your TA850 RCU TDM is configured for ring back and dial tone generation in tandem mode, please make note of the following requirement. When updating from A.03.49 or below to A.03.50 or above, do the following after the update is complete: Go to the terminal mode prompt(router/config/terminal mode) and type *prog_scenix*. This process will take about a minute and a half to complete.

Attention: This code is based off the A.03 development tree. The purpose is to convert A.03 configuration to A.04 configuration, so that when a user upgrades from A.03 code to A.04 code the configuration will not be lost.

TO UPGRADE FROM A.03 TO A.04 WITHOUT LOSING CONFIGURATION

- Save the A.03 configuration either to a *.cfg file (under Config Transfer) or to a text file using the terminal mode "download" command. This is a safeguard only and is not necessary for successful A.03 to A.04 upgrade. This file will be useful if ever the need arises to go back to A.03 code.
- Load (via TFTP or XMODEM) A.03.92 code. Unit will reset.
- Load (via TFTP or XMODEM) A.04.xx code. You are now running version A.04.xx

TO UPGRADE FROM A.03 TO A.04 WITH FACTORY

DEFAULTS

If you don't care about saving your configuration, there is no need to load the transition (A.03.92) code. Simply load A.04.xx code.

- After the code has loaded, pull the RCU out of the chassis and move dip switch #2 to the OPEN position (up).
- Now plug the RCU back into the chassis and allow it to power up. The dip switch will cause the unit to factory default.
- After the unit has powered up, remove the chassis and put the dip switch back to the down position.

Note: If, while running the transition code (A.03.92) you make any changes to the configuration, you must RESET the IAD in order for those changes to be successfully migrated to A.04. Then you may continue with the upgrade process and load A.04.xx.

Note: When upgrading from one A.04.xx firmware to another A.04.xx firmware, there is no need to use the A.03.92 transition code. Doing this will cause you to lose your configuration.

Using HyperTerminal to Upgrade Firmware:

1. Download the necessary upgrade files from the ADTRAN web site (www.adtran.com).
2. From the Start button choose Programs; then choose Accessories, then HyperTerminal.
3. When the Connection Description window appears, type in a connection name, select an icon, and click OK.
4. In the Connect To window, select the COM port to which the TA850 RCU is connected in the Connect using field and click OK.
5. The COM port Properties window appears next. Change Bits per second to 9600, Data bits =8, Parity = None, Stop bits = 1, Flow Control = None and click OK.
6. You are now connected.
7. Press Enter to get to the main menu.
8. In the TA850 menu, select the "System Utility" menu, then select "Upgrade Firmware".
9. Change the "Transfer Method" to "XMODEM".
10. Select "Start Transfer" from the menu. The unit is now waiting for an upload from the computer.
11. Click on "Transfer" then click "Send File..." in the HyperTerminal program.
12. Click Browse to locate the directory and file to download to the TA850 RCU.

13. Change the Protocol to XModem and click Send.
14. Once the download is complete, the unit will reset itself and continue operation.

TFTP Upgrade Method

1. Ensure that the ADTRAN Utilities CD-ROM has been installed on your computer.
2. Download the firmware upgrade file to your computer and save it to the "ADTNUTIL" directory on your hard drive.
3. Start ADTRAN'S TFTP Server by selecting Start/Programs/ADTRAN Utilities/TFTP Server from the Start menu.
4. Open a telnet session to the TA850. Select "System Utility" from the main menu and then choose "Upgrade Firmware".
5. Change the "Transfer Method" to "TFTP". Enter the IP address of the computer running ADTRAN'S TFTP Server in the "TFTP Host" field. Then enter the name of the firmware file that was downloaded from the ADTRAN web site into the "Filename" field.
6. To begin the transfer, select "Start Transfer". Percentage complete will be shown on the menu during the transfer.
7. Once the download is complete, the TA850 will reset.

If you experience any problems using your ADTRAN product, please contact [ADTRAN Technical Support](#).

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