Express 3000 (for Internet Access)

Configuration and Troubleshooting Guide

Before you begin...

Tools Required (for PC installations)

- DB-25 (25-pin) male to DB-9 (9-pin) female straight-through serial cable.
- USB to DB-25 (25-pin) male serial adapter cable (optional necessary if a standard serial interface is not available)
- Tools Required (for MacIntosh installations)
 - USB to serial adapter, such as the Keyspan brand
 - DB-25 (25-pin) male to appropriate MacIntosh interface (interfaces vary depending on model) serial cable

200

🕂 Ordering ISDN

The following ISDN packages are recommended by the industry for most home office/small business applications:

EZ-ISDN 1 (Capability Package U) EZ-ISDN 1A (Capability Package V) Generic Data S (if EZ-ISDN is not available)

Use the above information when ordering your ISDN line from the telephone company to ensure the line is set up properly. Refer to the *ISDN Feature Table* for more details. For more information regarding ordering ISDN, see the *Ordering ISDN Service User Guide* (ADTRAN document number 60000.015-8) or contact the telephone company for alternative line configurations.

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2. Express Configuration Software Installation

MAC OS X

All Windows Versions

1. Power on the computer.

- 2. Insert the Express Configuration CD into the CD-ROM drive.
- After the ADTRAN Installation Helper runs, click the INSTALL button and follow the on-screen instructions.

If the ADTRAN Installation Helper does not run automatically, double click on the **My Computer** icon (on the computer desktop) and double click on the CD-ROM drive.

 Start the Express Configuration software (if it does not automatically run after the installation process) by clicking the START button and selecting PROGRAMS > ADTRAN > ADTRAN EXPRESS CONFIGURATION.

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If the Configuration Wizard opens, click the **CANCEL** button to close the wizard.

5. Proceed to the steps outlined in ISDN Configuration section below.

MAC OS 9.2 and earlier

- 1. Power on the computer.
- 2. Insert the Express Configuration CD into the CD-ROM drive.
- 3. After the ADTRAN Installation Helper runs, click the **INSTALL** button and follow the on-screen instructions.

If the ADTRAN Installation Helper does not run automatically, double click on the Express 3000 CD-ROM icon and select ADTRAN > Express Configuration INSTALL.

- 4. Start the Express Configuration software by double clicking the MacIntosh HD icon and selecting ADTRAN ISDN > EXPRESS CONFIGURATION.
- 5. Proceed to the steps outlined in ISDN Configuration below.

3. ISDN Configuration

ISDN Configuration Guidelines

Use the following guidelines when entering the ISDN configuration parameters:

ISDN Line Phone Numbers

Enter a single string of 7 digits with no spaces or dashes. The area code is not entered in the ISDN Line Phone Numbers Field. There are two phone numbers on a BRI (one for each channel of the ISDN line). The directory numbers are assigned to the BRI by the ISDN Provider. (Example: Phone 1 = 5552222 and Phone 2 = 5552223)

Switch Type

The switch type is assigned by the ISDN Provider and corresponds to the ISDN switch protocol used on the D channel. The switch type will not always correspond to the manufacturer of the Central Office switch. The Express 3000 supports AT&T 5ESS (AT&T Custom), DMS-100 (DMS Custom), and National ISDN.

SPIDs (Service Profile Identifiers)

Enter a single string of digits with no spaces or dashes. A normal SPID follows this format: AREA CODE + LINE NUMBER + SUFFIX, where the area code is the local area code, the line number is the directory number assigned to the BRI by the ISDN Provider, and the suffix is a 4 digit extension (such as 0101 or 1111). There are two SPIDs on a BRI (one for each channel of the ISDN line). The SPID is defined by the ISDN Provider and assigned to the BRI by the Central Office switch. (Example: SPID 1 = 25655522220101 and SPID 2 = 25655522230101)

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National ISDN switch type requires 14 digit SPIDs for proper operation.

When the unit is properly configured, the **PWR/Line** LED will be solid green (not blinking). If your LED is not solid after 2 minutes, refer to the Express 3000 Troubleshooting Guide for more help.

All Windows Versions

- 1. Verify the **ISDN SETUP** link (located at the top of the left-side menu list) is highlighted and click the **SETUP** button (at the bottom of the screen).
- 2. Input the ISDN line information (assigned by the ISDN Provider) in the appropriate fields. Refer to *ISDN Configuration Guidelines* above for more details.
- 3. Click the **SAVE** button, then the **APPLY** button, and finally the **CLOSE** button to register the configuration changes. Click the **EXIT** link (at the bottom left) to exit the software.
- Proceed to the Remote Access Settings on page 3 for your specific operating system.

The ADTRAN Express Configuration software operates with MAC OS versions 9.2 and earlier. If your system is currently running MAC OS X, load 9.2 by clicking **SYSTEM PREFERENCES** and selecting **STARTUP DISK**. Choose MAC OS 9.2 from the options list and click **RESTART**. Once MAC OS 9.2 is loaded, follow the steps for installing the software on a MAC OS 9.2 platform. If this does not work properly, or MAC OS X configuration is preferred, the unit may be manually configured in OSX using the following steps.

- Download and install the terminal emulation program ZTERM from www.download.com and open a ZTERM session. (Please refer to the ZTERM instructions for more details on this step.)
- 2. Under the **DIAL** menu, select **DIRECTORY** and click **NEW**. Name the service Express 3000 and configure the following settings:

Data Rate: 57600 Hardware Handshake: ON Xon/Xoff: OFF

- 3. Under the SETTINGS menu, select MODEM PREFERENCES and verify the serial port listed corresponds to the correct port on the serial adapter. Enter ate1 in the INITIALIZATION field. Click OK.
- 4. Select the Express 3000 and click the DIAL button.
- 5. Enter **at!v** at the **ZTERM** prompt to access the Express 3000 Configuration menu.
- 6. Proceed to the steps outlined in *ISDN Configuration* below.

MAC OS 9.2 or earlier

- 1. Select MLPPP 128K from the list of PROFILES and click the NEW button.
- 2. Input the ISDN line information (assigned by the ISDN Provider) in the appropriate fields. Refer to *ISDN Configuration Guidelines*, for more details.
- 3. Click the OK button and then the CLOSE button
- Proceed to the Remote Access Settings on page 3 for your specific operating system.

MAC OS X (Manual Configuration)

- Use the active ZTERM session to input the ISDN line information (assigned by the ISDN Provider) in the appropriate fields. Refer to ISDN Configuration Guidelines for more details.
- 2. Proceed to Remote Access Settings on page 3 for your specific operating system.

ISDN Feature Table

Package	EZ-ISDN 1 (U)	EZ-ISDN 1A (V)	Data S
Data	B1, B2	B1, B2	B1, B2
Voice	B1, B2	B1, B2	B1, B2
Calling Party Number	B1, B2	B1, B2	B1, B2
Flexible Calling (Additional Call Offering)	B1, B2	B1, B2	
Call Waiting	B1	B1	
Call Forward Variable	B1	B1	
Visual Message Waiting Indicator		B1	
Call Forward Busy		B1	
Call Forwarding No Answer		B1	

Initialization Strings

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1. Click the START button and select SETTINGS > CONTROL PANEL.

4. Remote Access Settings

Dial Up Networking

Click the **START** button and select **SETTINGS > NETWORK AND DIALUP CONNECTIONS**. Please consult with your Internet Service Provider for instructions on creating a new connection (or editing an existing connection).

MAC Settings (MAC OS 9.2 or earlier)

There may be a control panel for the USB to serial adapter to provide information on the serial port.

- 1. Click the APPLE MENU and select CONTROL PANELS > MODEM.
- 2. Select the appropriate serial port and choose one of the following (depending on your application) ADTRAN 57.6κ, 115.2κ, or 230.4κ.
- 3. Click the APPLE MENU and select CONTROL PANELS > TCP/IP.
- 4. Configure the following parameters:
- CONNECT VIA PPP

CONFIGURE Using PPP Server

Enter DNS numbers on this page (if necessary). Please consult with your Internet Service Provider for assistance with these settings.

- Click the APPLE MENU and select CONTROL PANELS > REMOTE ACCESS. Enter the phone number, username, and password (provided by your Internet Service Provider) in the appropriate fields.
- 6. Click the CONNECT button

MAC Settings (MAC OS X)

Initialization Strings

- Copy the scripts (located in the MODEM SCRIPTS folder on the Express Configuration CD) and place them in the LIBRARY > MODEM SCRIPTS folder (located on the MacIntosh HD).
- 2. Click the APPLE MENU and select SYSTEM PREFERENCES.
- 3. Choose NETWORK and select SHOW for the appropriate serial port.
- 4. Select the TCP/IP tab and verify that the CONFIGURE field is defined as USING PPP.

Enter DNS numbers on this page (if necessary). Please consult with your Internet Service Provider for assistance with these settings.

- 5. Select the **PPP** tab and enter the phone number, username, and password (provided by your Internet Service Provider) in the appropriate fields.
- 6. Click the **MODEM** tab and select the **ADTRAN 115.2k** or **230.4k** (depending on your application) from the **MODEMS** list.
- Click the INTERNET CONNECT button (the telephone symbol in the upper right hand corner) to connect. Select the appropriate connection from the pull down menu and click CONNECT.

All necessary CCL scripts are installed automatically during Express Configuration Software Installation.



The **MODEM** and **TCP/IP** Control Panels are alternately accessed by selecting them from the **REMOTE ACCESS** menu. In addition, multiple configurations of each of program can be accessed by selecting **FILE > CONFIGURATIONS**.

- 2. Double click **MODEMS**.
- 3. Select the ADTRAN Express 3000 and click PROPERTIES.
- 4. Select the CONNECTION tab.
- 5. Click the ADVANCED button.
- 6. Enter one of the following strings in the EXTRA SETTINGS field. (Consult with your Internet Service Provider if you are unsure which string to use.)

Windows ME users must click SHOW EVERYTHING IN THIS FOLDER.

Multi-link PPP (2 channels): ats54=12s53=3s27=1s118=8s129=0s6=0s13=1

PPP (1 channel): ats54=12s53=3s27=0s6=0s13=1

7. Click OK to save the initialization string and close the open windows.

Dial Up Networking

NOTE

1. Double click the MY COMPUTER icon.

Windows ME users must click the START button, select SETTINGS > CONTROL PANEL, and then click SHOW EVERYTHING IN THIS FOLDER.

 Double click DIAL UP NETWORKING. Please consult with your Internet Service Provider for instructions on creating a new connection (or editing an existing connection).

Initialization Strings and Dial Up Networking (Windows XP)

Initialization Strings

- 1. Click the START button and select CONTROL PANEL > PRINTERS AND OTHER HARDWARE > PHONE AND MODEM OPTIONS; then click the MODEMS tab.
- 2. Select the ADTRAN Express 3000 Plug and Play and click PROPERTIES.
- Select the ADVANCED tab.
- 4. Enter one of the following strings in the Extra Initialization Commands field. (Consult with your Internet Service Provider if you are unsure which string to use.)

Multi-link PPP (2 channels): ats54=12s53=3s27=1s118=8s129=0s6=0s13=1

PPP (1 channel): ats54=12s53=3s27=0s6=0s13=1

- Click the DEFAULT PREFERENCES button. Change the DATA PROTOCOL drop down box to PPP 128K (for 2 channels) or PPP 64K (for a single channel). Disregard this step if the DATA PROTOCOL drop down box is not available for configuring (grayed out).
- 6. Click OK to save the initialization string; then close the open windows.

Dial Up Networking

 Click the START button and select ALL PROGRAMS > ACCESSORIES > COMMUNICATIONS > NEW CONNECTION WIZARD. Please consult with your Internet Service Provider for instructions on creating a new connection (or editing an existing connection).

Initialization Strings and Dial Up Networking (Windows 2000)

Initialization Strings

- 1. Click the START button and select SETTINGS > CONTROL PANEL.
- 2. Double click PHONE AND MODEM OPTIONS; and then click the MODEMS tab.
- 3. Select the ADTRAN Express 3000 Plug and Play and click PROPERTIES.
- Select the ADVANCED tab.
- 5. Enter one of the following strings in the **EXTRA INITIALIZATION COMMANDS** field. (Consult with your Internet Service Provider if you are unsure which string to use.)

Multi-link PPP (2 channels): ats54=12s53=3s27=1s118=8s129=0s6=0s13=1

PPP (1 channel): ats54=12s53=3s27=0s6=0s13=1

- Click the DEFAULT PREFERENCES button. Change the DATA PROTOCOL drop down box to PPP 128K (for 2 channels) or PPP 64K (for a single channel). Disregard this step if the DATA PROTOCOL drop down box is not available for configuring (grayed out).
- 7. Click OK to save the initialization string; then close the open windows.

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Connecting a Telephone

5. Completing the Installation

NOTE	Port 2 is not available for use when there is an active data call on the Express 3000. If there is no active data call, Port 2 operates normally. Port 1 may be used normally at all times.
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1. Plug a telephone (or fax machine) in the jack labeled **1** on the back of the ADTRAN unit.

The phone number assigned to **PORT 1** is the number entered in the **PHONE 1** field (see the ISDN Configuration on page 2 section of this guide).

2. Use the telephone or fax machine for normal operation with a standard telephone line.

Additional Telephone Features

Call Waiting Mode

Open the Express Configuration Wizard, configure the FLASH/HOOK DEFAULT to CALL WAITING, and click OK.

To Use:

To Enable:

During a voice call, a beep indicates an incoming call. Flash hook to place the active call on hold and retrieve the incoming call. Flash hook again to return to the original active call.

To flash hook a standard phone, press the flash button (as if you were disconnecting the call). Most cordless phones have a button labeled FLASH . Alternately, the TALK button may be used if no FLASH button is available.
Alternately, the TALK buildn may be used if no FLASH buildn is available.

To Disable:

Enter *70 from the telephone keypad before placing the call.

SYMPTOM: All LEDs are off — No power to the Express 3000.

TRY THIS

1. Connect the Express 3000 to a different electrical outlet.

OR

2. Use a different 12V power supply.

SYMPTOM: PWR LED is flashing — No SYNC with the ISDN line.

TRY THIS

 Verify the cable is securely connected to the ISDN jack on the wall and the ISDN port on the back of the unit.

THEN

 If the unit is connected properly and the PWR LED is still flashing, start the ADTRAN Express Configuration software (ships with the unit) by selecting PROGRAMS > ADTRAN > ADTRAN EXPRESS CONFIGURATION. Select the DIAGNOSTICS menu (on the left side of the window). Click the UNIT INFO button and the unit status information displays. (The status information changes every 30 to 40 seconds, so click the UNIT INFO button a couple times to verify the displayed information is current.)

VERIFY THE FOLLOWING

1. ISDN LOOP STATUS — The contents of the ISDN LOOP STATUS field will require one of two actions:

LINK DOWN

Call your telephone company to report trouble with your ISDN line.

GETTING TEI OR REGISTER SPID

Disable the SPID download feature and verify the Express 3000 ISDN configuration by completing the following steps:

- 1. Close the UNIT INFO screen by clicking the CANCEL button.
- 2. Select the ISDN SETUP menu (on the left side of the window).
- 3. Click the SETUP button and the ISDN SETUP menu displays.
- 4. Check the **DISABLE SPID DOWNLOAD** check box.
- Verify the ISDN settings for your Express 3000 including the switch type, ISDN phone number, and SPIDS. (Refer to *ISDN Configuration on page 2* for more help.)
- 6. Click SAVE, APPLY, and then CLOSE.
- 7. Click Exit to close the Express Configuration software.

FINALLY

- Reset the unit and the ISDN connection by completing the following steps:
 - Verify that both switches on the back of the unit are in the ON position (pointing down).
 - 2. Disconnect power from the Express 3000.
 - Unplug the ISDN line from the wall jack and plug it back in, making sure it has a secure connection (the tab in the middle of the connector should snap in place).
 - 4. Unplug the ISDN line from the back of the Express 3000.
 - 5. Wait 2 minutes; then restore power to the Express 3000.
 - Connect the ISDN line to the ISDN port on the back of the unit, making sure it has a secure connection (the tab in the middle of the connector should snap in place).

To Enable:

Open the Express Configuration Wizard, configure the FLASH/HOOK DEFAULT to CONFER-ENCE/TRANSFER, and click OK.

Conference/Transfer Mode

To Use:

During a voice call, a beep indicates an incoming call. Flash hook to place the active call on hold and retrieve the incoming call. Flash hook again to return to the original active call.

If there is an active call and you wish to initiate another call, flash hook to place the first caller on hold and dial the second number (after hearing dial tone). Flash hook again to put the second caller on hold and retrieve the first caller. Flash hook once more to conference the calls together. Hanging up (after conferencing the calls together) will effectively transfer the call.

To Disable:

Enter *70 from the telephone keypad before placing the call. (This feature is now disabled until a new configuration is applied to the Express 3000 or the unit is power-cycled.)

To Redial:

Enter **5 from the telephone keypad.

6. Troubleshooting

SYMPTOM: ADTRAN Express Configuration or Windows Device Manager is unable to locate the Express 3000.

Note: If the Express 3000 has an active data call, the unit will not be available through the ADTRAN Express Configuration software or Windows Device Manager.

TRY THIS

- Verify the computer's COM port is directly connected to the EIA-232 port on the back of the Express 3000.
- 2. Verify that both switches on the back of the unit are in the **On** position (pointing down).
- 3. Reboot your computer; then check the unit again.
- 4. Check the computer COM port and serial cable. (Try a different COM port and/or cable if possible.) If you are using a USB to serial converter, verify that the converter is installed properly as a device on your computer.
- 5. If there is an icon in the Windows system tray (the icons located on the right side of the task bar) that says DOUBLE CLICK TO EDIT MODEM PROPERTIES, double click it to launch the ADTRAN Express Configuration software if you cannot open the software from the START menu. Select the PREFERENCES menu and verify that CAPTURE COM PORT is not checked. Click EXIT to close the software.

WINDOWS TROUBLESHOOTING

- 1. Open the Windows Device Manager and verify the COM port is configured with the following settings:
 - Bits per second: 115200
 - Data bits: 8
 - Stop Bits: 1
 - Parity: None Flow Control: Hardware
- Check the Windows system tray (the icons located on the right side of the task bar) and verify no other programs are currently running that will use the COM port. Some examples of programs that use the COM port are HotSync, digital camera software (for non-USB connections), HyperTerminal, Remote Access Servers, etc.
- 3. BIOS settings can be set to disable serial ports on the computer. Have someone who is familiar with the BIOS settings on your computer verify the serial ports are enabled on the computer and are working inside Windows. (Please contact Technical Support for your computer or Operating System for help with this step.)

FINALLY

- Factory restore the Express 3000 by completing the following steps:
 - 1. Disconnect power and all connected cables from the Express 3000.
 - 2. Place SWITCH 2 (on the back of the unit) in the OFF position (switch pointing up).
 - 3. Connect power back to the Express 3000.
 - After the Express 3000 powers up, wait at least 30 seconds and place SwITCH 2 in the ON position (switch pointing down).
 - 5. Reapply the ISDN profile or reconfigure the device.
 - 6. Reconnect all cables.

SYMPTOM: Data calls only connect with one channel.

TRY THIS

- Verify that your ISP (Internet Service Provider) supports 2 channel ISDN (128K). Some ISPs support ISDN on one 64K channel. Verify you have the correct ISDN phone number (with the ISP).
- 2. Verify the Express 3000 configuration (using this guide).
- Verify the initialization string is correct in your computer for your operating system (refer to *Remote Access Settings on page 3* for more details).

Note: If the Express 3000 has an active data call, the unit will not be available through the ADTRAN Express Configuration software or Windows Device Manager.

THEN

- Check the Express 3000 status buffer messages by completing the following steps:
 - Launch the ADTRAN Express Configuration software (ships with the unit) by selecting PROGRAMS > ADTRAN > ADTRAN EXPRESS CONFIGURATION. Select the DIAGNOSTICS menu (on the left side of the window). Click the STATUS BUFFER button (for the Local Unit) and a list of the status buffer displays. Clear this buffer by clicking the CLEAR BUFFER button. Close the buffer window by clicking the CLOSE button. Exit Express Configuration Software by clicking EXIT.
 - 2. Attempt your outbound call again.
 - Launch the ADTRAN Express Configuration software and display the status buffer messages (see Express Configuration Software Installation on page 2).
 - Review the status messages. The entries are in reverse order, with the most recent entry displayed on line 1. Check the sequence of events for the connection for a DIAL 2 error message.

ED_MISMATCH followed by Disconnect 2 indicates that the ISP was unable to bring both ISDN calls together and disconnected the second call. Try a different access number or contact your ISP.

NORMAL_CLEARING followed by Disconnect 2 indicates that the ISP blocked and disconnected the second call. Some ISPs limit ISDN service to 64K during times of high traffic. Try a different access number or contact your ISP.

Telephone company messages are in upper case and have underscores between words (for example, NETWORK_BUSY, NO_ROUTE_TO_DEST, and INCOMPATIBLE_DEST). Refer to the manual provided on the Express 3000 CD for error messages definitions.

SYMPTOM: Unit dials out but is unable to connect a data call.

NOTE: The PHONE 2 LED on the Express 3000 will illuminate orange during an outgoing call attempt. These steps assume the PHONE 2 LED is illuminating but the data call does not successfully negotiate. If the PHONE 2 LED does not illuminate during an outgoing call attempt, refer to the troubleshooting steps in SYMPTOM: ADTRAN Express Configuration or Windows Device Manager is unable to locate the Express 3000 on page 4.

TRY THIS

- 1. Verify the number dialed is an ISDN number.
- 2. Verify the initialization string is correct in your computer for your operating system (refer to *Remote Access Settings on page 3* for more details).
- **NOTE:** If the initialization string you enter in Windows does not save, the Windows registry is not working properly. Please contact Technical Support for your computer or operating system for help with this problem.

THEN

- Check the Express 3000 status buffer messages by completing the following steps: 1. Launch the ADTRAN Express Configuration software (ships with the unit) by selecting PROGRAMS > ADTRAN > ADTRAN Express ConFigurATION. Select the DIAGNOSTICS menu (on the left side of the window). Click the STATUS BUFFER button (for the Local Unit) and a list of the status buffer displays. Clear this buffer by clicking the CLEAR BUFFER button. Close the buffer window by clicking the CLOSE button. Exit Express Configuration Software by clicking Exit.
 - 2. Attempt your outbound call again.
 - 3. Launch the ADTRAN Express Configuration software and display the status buffer messages (see Step 1 above).
 - 4. Review the status messages. The entries are in reverse order, with the most recent entry displayed on line 1. Telephone company messages are in upper case and have underscores between words (for example, NETWORK_BUSY, NO_ROUTE_TO_DEST, and INCOMPATIBLE_DEST). Refer to the manual provided on the Express 3000 CD for error message definitions.
- **NOTE:** If there are no entries in the status buffer, the dialer you are using (normally Windows) is not communicating with the Express 3000. Check the setup of your dialer and verify that it is configured to use the Express 3000.

SYMPTOM: PWR LED is off and Phone 1 or 2 is on and solid.

TRY THIS

- 1. Disconnect power from the Express 3000.
- 2. Unplug the ISDN line from the back of the unit.
- 3. Connect power back to the Express 3000.
- 4. Connect the ISDN line to the ISDN port on the back of the unit.
- If the PHONE 1 and 2 lights are off, wait a minute and verify the PWR LED turns solid green.

OR

- Factory restore the Express 3000 by completing the following steps:
 - 1. Disconnect power from the Express 3000.
 - Place Switch 2 (on the back of the unit) in the OFF position (switch pointing up).
 Connect power back to the Express 3000.
 - 4. After the Express 3000 powers up, wait at least 30 seconds and place Switch 2 in the ON position (switch pointing down).
 - If the PHONE 1 and 2 lights remain off, reconfigure the unit. If the PHONE LEDs illuminate again, contact ADTRAN Technical Support (see Contact Information on page 6).
 - 6. Reapply the ISDN profile or reconfigure the device.
 - 7. Reconnect all cables.

SYMPTOM: Unable to receive/place voice/fax calls.

NOTE: If you are able to make a call but there is noise or static on the line, or if you get a dial tone that continues after you dial the number, contact ADTRAN Technical Support.

TRY THIS

- Verify the ISDN settings are correct by completing the following steps:
 - Launch the ADTRAN Express Configuration software (ships with the unit) by selecting PROGRAMS > ADTRAN > ADTRAN EXPRESS CONFIGURATION. Select the DIAGNOSTICS menu (on the left side of the window). Click the REGISTER DUMP button (for the Local Unit) and a list of the AT registers displays.
 - Verify that the assigned phone numbers (7 digits with no spaces or hyphens) for the ISDN line are listed in ATS 62 and 63. The area code is listed in ATS 67.
 Click the CLOSE button to exit the register dump.

THEN

- Verify your unit is running the latest firmware by completing the following steps:
- Click the UNIT INFO button and the firmware version displays (in the second line). Note the firmware version for later.
- Go to <u>www.adtran.com</u> (go the Technical Support page) and obtain the latest firmware.
- 3. If your firmware is not the latest firmware, upgrade your unit. (Refer to the manual provided on the Express 3000 CD for details on upgrading the unit.)

FINALLY

Contact your ISDN provider to verify that your line is provisioned for voice and data.

- **SYMPTOM:** Unable to receive/place voice/fax calls on devices connected to the **PHONE 1** port while connected with a data calls.
 - NOTE: The PHONE 2 port on the Express 3000 is not available for use while there is an active data call. Any incoming call to PHONE 2 will receive a busy signal, and local phones/fax machines connected to PHONE 2 will not receive dial tone. Use the PHONE 1 port for a device that needs to be available for use during an active data call.

TRY THIS

- Verify your unit is running the latest firmware by completing the following steps: 1. Click the **UNIT INFO** button and the firmware version displays (in the second line).
 - Note the firmware version for later. 2. Go to <u>www.adtran.com</u> (go the Technical Support page) and obtain the latest
 - firmware. 3 If your firmware is not the latest firmware upgrade your unit (Refer to the manu
 - 3. If your firmware is not the latest firmware, upgrade your unit. (Refer to the manual provided on the Express 3000 CD for details on upgrading the unit.)

THEN

Verify the initialization string is correct in your computer for your operating system (refer to *Remote Access Settings on page 3* for more details).

NOTE: If the initialization string you enter in Windows does not save, the Windows registry is not working properly. Please contact Technical Support for your computer or operating system for help with this problem.

7. Contact Information



Internet: www.adtran.com

Pre-Sales Support: application.engineer@adtran.com (800) 615-1176

Post-Sales Support: support@adtran.com (888) 4ADTRAN Monday through Friday 7AM to 10 PM CT -- \$19.95 Saturday 8AM to 5 PM CT -- \$29.95 ACES Help Desk: (888) 874-ACES (2237)