# ADTRAN

# Using the ISU Express XR/XRT With ReachOut® Version 5.0 Under Windows® 95

## Introduction

This Technical Support Note will provide the information needed for integrating an ADTRAN Express XR or Express XRT into ReachOut® 5.0 under Windows 95. The instructions should also work in Windows 3.1.

## Before you Begin

- This Technical Support Note assumes that you have already installed the ReachOut software on both the host and the client computers. It also assumes that you have already installed the inf file and have installed the Express support into Windows 95. (See KB Article # 1549)
- This note will discuss settings for two different profiles: Fallback (57.6 or 115.2 kbps) and V.120 (64 kbps).
- Your PC hardware also affects your throughput. If the COM port connected to the Express does not have at least a 16550 UART chip, it will adversely affect the performance of your application for baud rates of over 19.2 kbps. For rates over 19.2 kbps, you need to purchase an add-on card with the 16550 UART chipset.
- The Windows 3.x COM drivers do not support 115.2 kbps. In order to run 115.2 kbps on Windows 3.x, it will be necessary to install a third party COM driver that will support high speeds. If you do not have a high-speed COM driver for Windows 3.x, the fastest baud rate allowed is 19.2 kbps.

## Express XR/XRT Setup

If installing an Express XR/XRT for the first time, use the ADTRAN Express Configuration software to automatically set up your Service Profile Identifier (SPID) number(s) and switch type.

**Note:** you must enter your correct area code and phone numbers for auto-SPID to perform correctly.

## Client Configuration

To configure the pcANYWHERE client for use with an ADTRAN Express XR/XRT, do the following:

1. To start the configuration process click on the **Configuration** icon in the ReachOut program group.
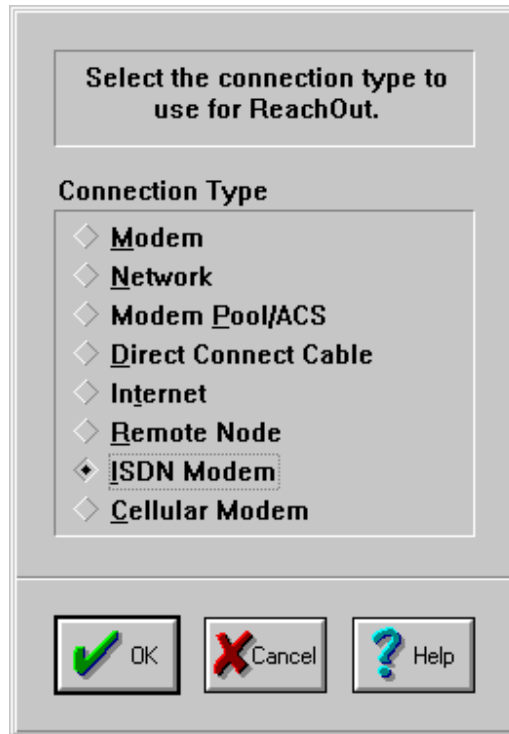2. Select **ISDN Modem** as your **Connection Type** as in Figure 1.

**Figure 1 : Selection Connection Type**

3. Click on the **OK** button.
4. From the ReachOut configuration screen make sure that the port is set to the port that has the Express unit on it (see Figure 2).
5. Next move the baud to 115,200 using the drop down list box. This will help improve performance. However, in order for ReachOut to support speeds over 19,200 bps, a 16550 or higher UART chip must be used in your serial card.
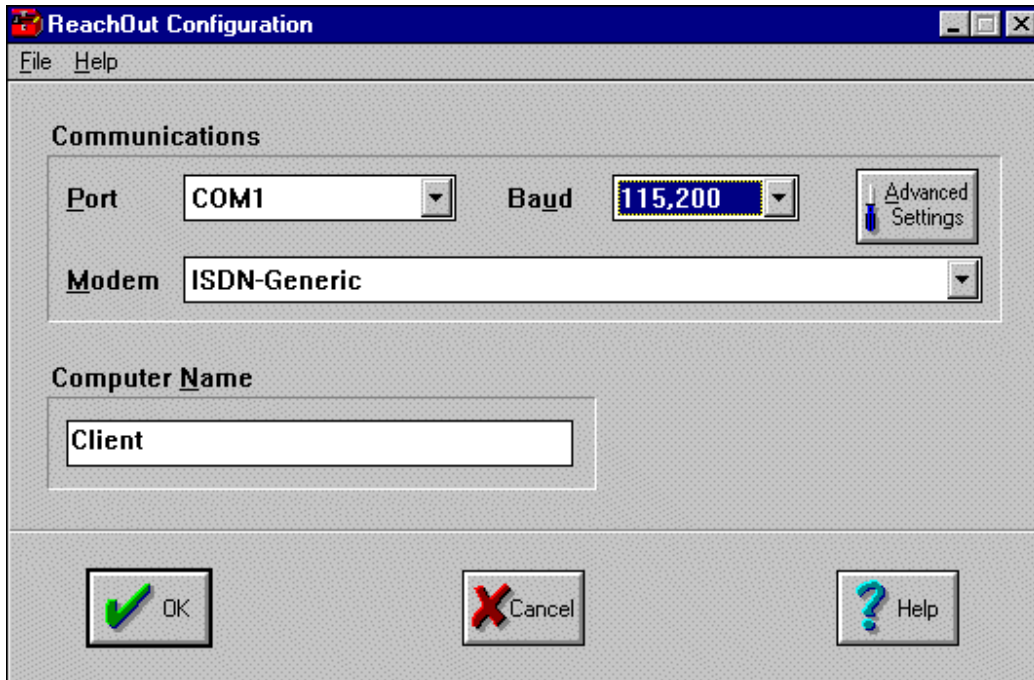
**Figure 2 : ReachOut Configuration Dialog box**

6. Enter the computer's name in the **Computer Name** text field. The name of the client computer should be different from that of the host.
7. Click on the **Advanced Settings** button to bring up the **Advanced Settings** screen shown in Figure 3.
8. **Carrier** should be changed to **Obey**.
9. The prefix may be set to ATD. ATDT and ATDP will also work, but the extra character is ignored. You may also add any numbers that always should be dialed. For example, some ISDN connections require a 9 in order to dial an outside line. To avoid entering 9 before the phone number, use the following dialing prefix: ATD 9" (but only if you are using a direct inward dialing scheme!).
10. If ReachOut has problems detecting the proper UART, you may want to force ReachOut to use a 16550 UART chip. The test systems did not exhibit this behavior, hence we did not use that setting.
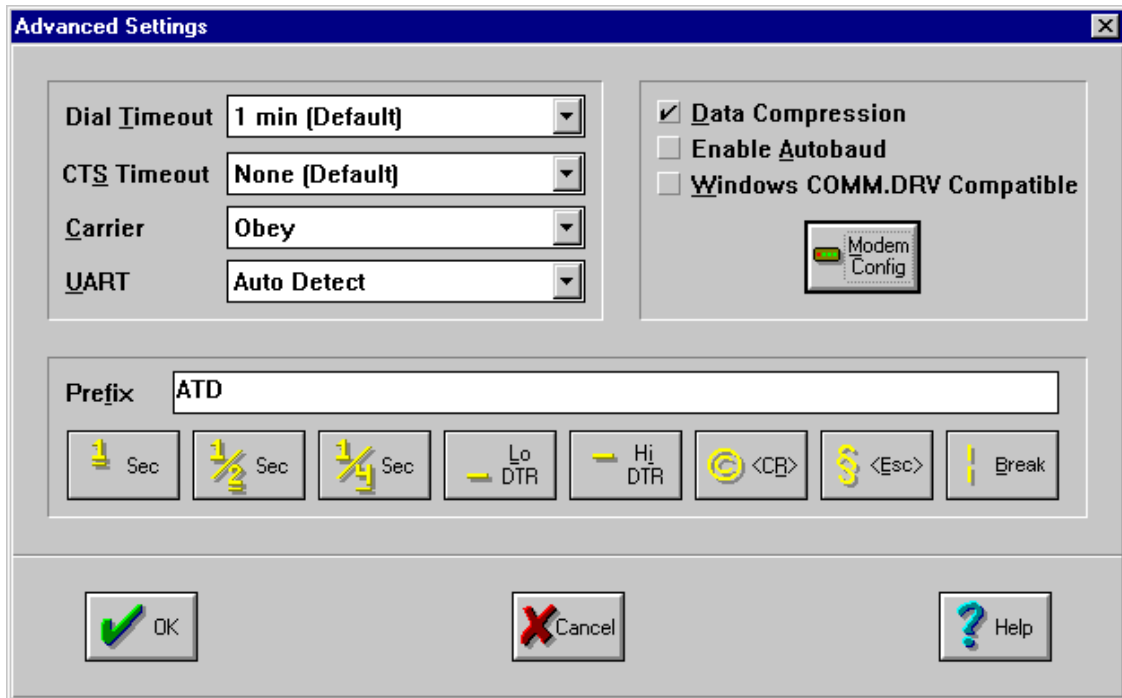
**Figure 3 : The ReachOut Advanced Settings Dialog box**

11. Now click the **OK** button.
12. Click on the **Modem Config** button shown in Figure 3 to allow you to choose which modem you would like to modify.
13. Select the **ISDN-Generic** modem setup by single-clicking on the line shown in Figure 4.
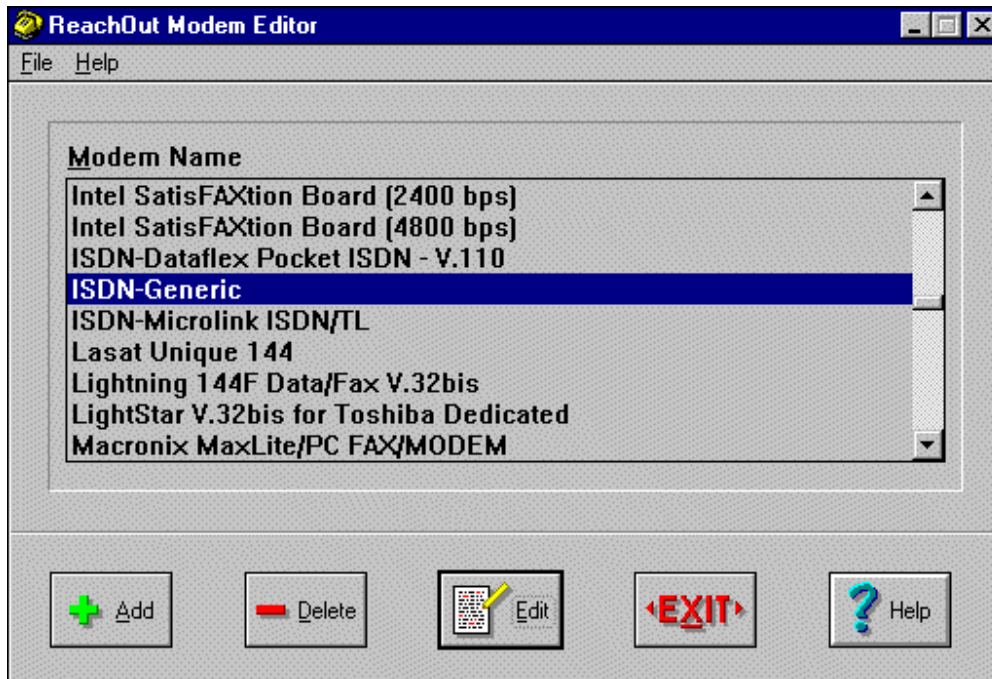
Figure 4 : Select ISDN-Generic

14. Click on the **Edit** button shown above to edit the ISDN-generic configuration.
15. Once in the **Edit Modem Entry** screen (shown in Figure 5), change the **Data Rate** to **115,200**.
16. In the Reset String text field enter one of the following setup strings for use with the desired connection protocol.
    o **64 kbps using the V.120 protocol:** ©¼AT&F3&D2©½½
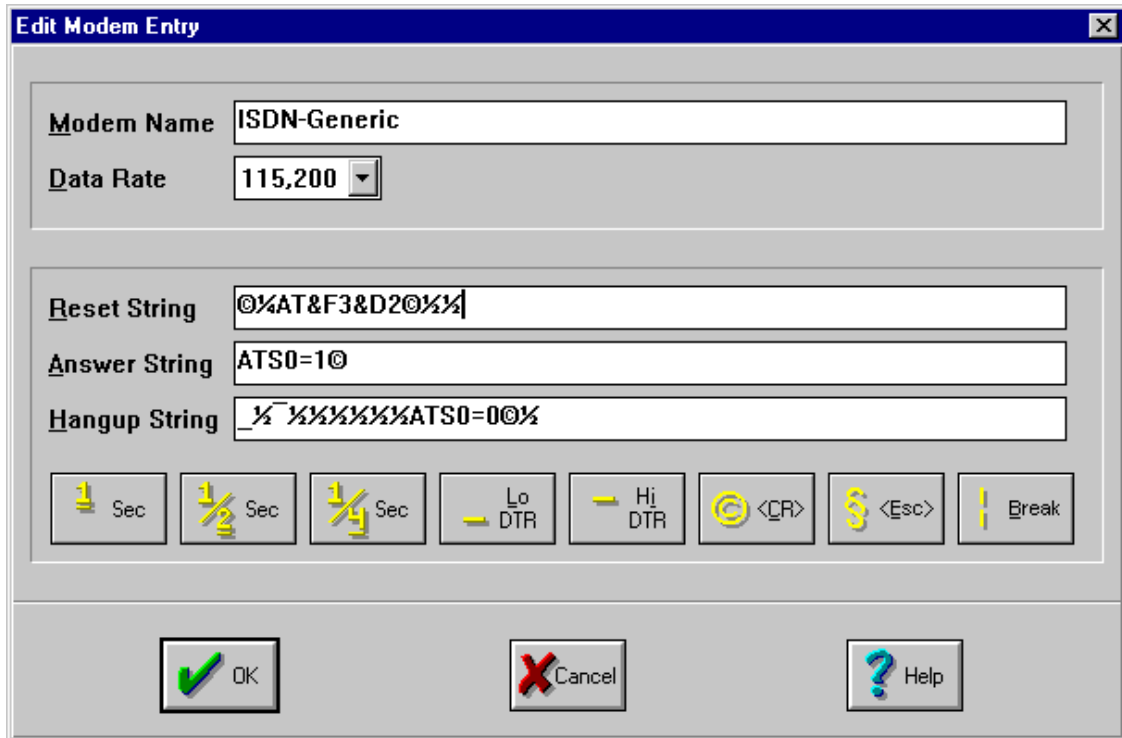    o **115.2 kbps using the fallback protocol:** ©¼AT&F&D2©½½



Figure 5: The ReachOut Edit Modem Entry Dialog Box

17. Click the **OK** button.
18. Click the **EXIT** button.
19. Click the **OK** button twice more to exit.

The Express should now work using a protocol called V.120. Please repeat these steps on the host at this time. Use the client and the host to test the connection. This will ensure that all of the above configuration was done properly. When the Express is using the FALLBACK protocol, the unit will try to connect with several protocols before giving up. This allows the ISU to connect with more types of terminal adapters than any one single protocol would allow.