

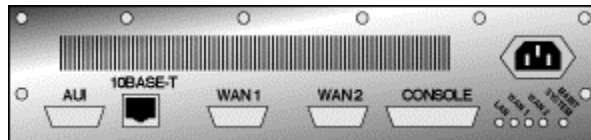
Configuring the Intel 9100 for Dedicated Access Service

You will need to obtain the following items:

- A CSU/DSU to connect the router to the leased line demarc.
- An RJ45 cable (straight through to a hub or cross over to the Ethernet card) to connect the Intel unit to your Local Network.
- You will also need an RS232 serial cable to connect a vt100 terminal (or vt100 terminal emulator) as a console to do configuration and management.

Setup Instructions for the Intel Express 9100:

- Connect the serial cable from WAN 1, on the back of the router, to the User Interface of the CSU/DSU.
- Connect the T1 or 56k cable from the demarc to the Network Interface on the CSU/DSU.
- Insert an RJ45 cable in the router's Ethernet port. Use a straight through cable if from a hub or cross over if from the Ethernet card.
- Connect the power cords to each unit, power up the CSU/DSU, then the router. Allow a few minutes for diagnostics, then check the front panel for link lights.



Configuring the Intel Express 9100:

The Express 9100 has a built in menu driven interface which can be used to configure, troubleshoot and monitor the router's interfaces.

The router can also be configured using Intel Device View for windows.

All modifications are saved by selecting OK in the current window and selecting Exit (save), when exiting the configuration tool.

To begin configuring the Express 9100, connect the RS232 serial cable to a laptop and the console port on the rear of the router. If the proper cable is not available, you can telnet to the router's default IP address of 192.0.2.1 with terminal settings of vt100, 9600 baud, and n-8-1.

1. Select Administrator and press enter, the password prompt will appear at the bottom of the screen, press enter to get to the Local Management menu.
2. At the Local Management menu, select Configuration.
3. At the Configuration menu, select Configuration Tool.
4. At the subsequent menu, select Advanced.

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The Advanced Configuration menu is a simple keyboard navigation menu system. The arrow keys are used to choose options and the Enter key to select the option. Alternatively, capital characters can be typed in to traverse the menu system. The ESC key can be used to exit from a menu without saving changes. Click OK to apply changes to the current window and return to the previous window.

5. At the Advanced menu, select System. Input the router name, location and contact person then hit OK.
6. From the Advanced Configuration menu, select Links.

To configure the 9100 router for Dedicated Access service, follow these steps:

1. Delete WAN Link 1. Use cursor keys to highlight WAN Link 1, then use the TAB key to select Delete and press enter. A confirmation box will then appear, then select OK.
2. Select the FR Ports option located at the bottom of your screen. The Frame Relay ports screen will appear. Select Add, to add a frame relay port and:
 - Set the DLCMI parameter to ANSI-D.
 - Modify the Baudrate to match the speed of the circuit being installed. Speed ranges from 56K to 2Megs.
 - Select OK to return the FR Ports window, which now displays the new frame relay port you've just added. Select OK again, to return to the Links window.
3. At the links window, select Add. The Add Links window will appear.
 - Highlight PPP over HDLC and press enter, which will reveal the protocol pull down menu. Scroll down to select Frame Relay.
 - Name the link anything descriptive, for example, Frame Relay.
 - Select Setup to continue configuring the Frame Relay Link.
 - Verify WAN Protocol as Frame Relay and Status as Enabled.
 - Enter the DLCI at the DLCI prompt.
 - Disable Stac compression at the Data Compression prompt.
 - Select OK, to return to Links window, which now display the new Frame Relay link you have just added.
 - Select OK, to return to the Advanced Configuration Menu

To configure routing and IP addresses:

1. At the Main Menu, select Protocols.
2. At the Protocols Menu, select IP.

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3. At the IP Menu, select LAN Link.
 - Input your Network IP address and Netmask.
 - Disable RIP -1 on this Link.
 - Select the Advanced option at the bottom of your screen.
 - Disable Bootp Request and select OK.
 - Select OK, to return to the Links window.
4. Select Add, to add the Frame Relay Port configured in the prior section.
5. Select the Frame Relay Port and then select Setup. The WAN link setup window will appear.
 - Change the Rip version from RIP-1 to RIP -2
 - Change the Numbered parameter from No to Yes.
 - Input your Serial IP address and Netmask. Then click OK to get back to the Links Menu.
6. At the Links Menu, select the Static Routes option located at the bottom of the screen.
 - Select Add, to add a static route.
 - Select the link parameters pull down menu. Choose the Frame Relay option.
 - Select Ok, to return to the Static route window.
 - Select OK, to return to the Links window.
7. Select the Advance option located next to the Static Routes Option.
 - Set Bootp Request to 0 (zero).
8. Select Ok, to return to the Links window.
9. Select OK, to return to the Protocol menu
10. Select OK again, to return to the Advanced Configuration menu.