CHAPTER 3

Simple and Advanced Windows

This chapter describes Cisco ConnectPro simple and advanced windows. Cisco ConnectPro provides configuration schemes for both nontechnical and advanced users. With Cisco ConnectPro you can choose between simple (a subset of all possible dialog boxes) and advanced windows. You can use the Cisco ConnectPro simple windows to configure bridging to allow your router to make a call. Use Cisco ConnectPro advanced windows to add advanced functionality such as Internet Protocol (IP) and Internetwork Packet Exchange (IPX) routing.

Throughout this guide you will find references that match the Cisco ConnectPro window fields to their respective software commands, which are listed in the *Cisco 750 Series and Cisco 760 Series Command Reference*. Use the command reference manual to obtain detailed information on any Cisco ConnectPro parameter.

Using Profiles

After you log in to Cisco ConnectPro, you will create a simple user *profile*. A user profile is a set of software configurations customized for and associated with a specific remote site. Profiles are saved and stored in your router's nonvolatile memory.

You can use profiles to create a different set of configurations, such as filters, called numbers, demand thresholds, line timeouts, passwords, and receive numbers for individual remote sites. Profiles enable your router to make on-demand calls to various numbers, based on demand filters that are customized for each called remote site.

With Cisco ConnectPro you can enter parameters at both the system and profile levels.

System Parameters

System parameters are parameters that are configured for the entire router, and they are independent of profiles. System parameters can be changed only at the system level. They cannot be modified on a per-profile basis.

Profile Parameters

Profile parameters are parameters that can be configured on a per-profile basis. They apply to the particular connection associated with an individual remote site. Create a profile and then redefine the individual parameters within that profile.

Simple Cisco ConnectPro Profile

The Simple Cisco ConnectPro profile is the name of the profile created when you first logged in to Cisco ConnectPro. The Simple Cisco ConnectPro profile consists of all the profile parameters at the default level. All profiles are based on values inherited from the system level. Therefore, if most of your profiles will share many of the same profile parameter values, set those values at the system level. This creates a customized template for your profiles. All new profiles will inherit all values from this template.

After you have customized the system profile, you can create individual profiles by redefining system parameters at the profile level. This affects only that specific profile. The system level profile remains the same.

You are *not* required to redefine all parameters for every profile. Parameters not redefined at the profile level are inherited from the system-level template.

Note You cannot create a simple Cisco ConnectPro profile when you first log in to a CiscoPro CPA900 router.

Creating Configurations

Cisco ConnectPro provides two types of interfaces: a simple interface for quick configuration of bridging, and a full interface to configure advanced functions such as IP and IPX routing.

To quickly configure bridging functions by using Cisco ConnectPro, do the following:

Step 1 Check your hardware to be sure that it is completely set up and connected to your Integrated Services Digital Network (ISDN) line.

Step 2 Start Cisco ConnectPro. The Login dialog box is displayed. (See Figure 3-1.)

Figure 3-1 Login Dialog Box

Step 3 Select one the following options to log in to your router:

- Ethernet Address—A 12-digit hexadecimal number located on the bottom of your router
- IP Address—12 integers in the form xxx.xxx.xxx.xxx

Note The Serial Number and Ethernet Address fields are functional only if you are using an NDIS (Windows for Workgroups) or Open Data-Link Interface (ODI) (Novell) driver. These selections are not applicable if you are using a Transmission Control Protocol/ Internet Protocol (TCP/IP) stack.

Step 4 Enter its value in the field.

Step 5 Click **OK.**

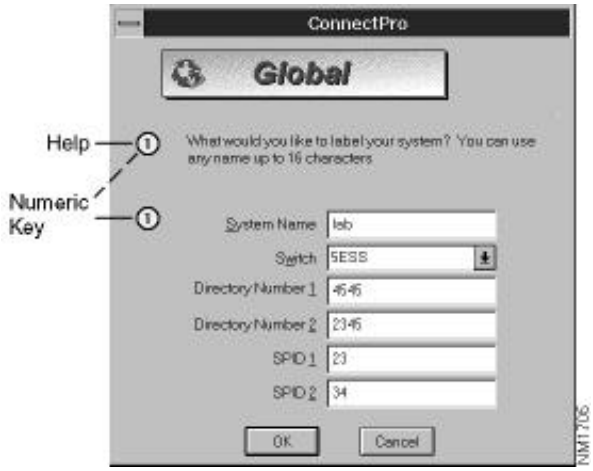
The Simple System Configuration dialog box is displayed. (See Figure 3-2.)

Figure 3-2 Simple System Configuration Dialog Box

Step 6 Click **Yes** to configure your router. If you do not want to view this dialog box each time you enter Cisco ConnectPro, deselect the check box.

If you click **Yes**, the Global Configuration dialog box is displayed, as shown in Figure 3-3.

Figure 3-3 Global Configuration Dialog Box



Step 7 Enter the appropriate information into the Global Configuration dialog box.

System Name—This field indicates the name of the router you entered in Step 1. You can use any name up to 20 characters. For more information, refer to the **set systemname** command.

Switch—This field indicates the switch type that your line is connected to. Specify your switch type from the drop-down list. Your telephone service provider can supply the name of your switch. For more information, refer to the **set switch** command.

Directory Numbers—These fields specify your router's phone numbers. Depending on your ISDN line configuration by the service provider, your line may or may not require one or two directory numbers. If you are using an AT&T 5ESS Custom switch, directory numbers are not required. If you are using an AT&T NI-1 or Northern Telecom DMS-100 switch, directory numbers are required. If they are required, set the directory number for Channels 1 and/or 2.

For more information, refer to the **set directory number** command. For more information on using directory numbers, see the *Cisco 750 Series and Cisco 760 Series User Guide.*

SPIDs—Service Profile Identifiers (SPIDs) identify your router on certain types of ISDN lines. Depending on the ISDN line configuration by the ISDN service provider, your line may or may not require one or two SPIDs. If you are using an AT&T 5ESS Custom switch, SPIDs are not required. If you are using an AT&T NI-1 or Northern Telecom DMS-100 switch, SPIDs are required. *Only the service provider can assign SPIDs.* If they are required, specify the router's SPID numbers in these fields. For more information, refer to the **set spid** command.

Use the **Tab** key to advance to each input field. While you advance to each field, the Global Configuration dialog box provides a numeric key and help for each input field. Click **OK** when you have finished entering the information.

The Profile Configuration dialog box is displayed. (See Figure 3-4.) Using the Profile button, you can configure a simple Cisco ConnectPro profile.

Figure 3-4 Profile Configuration Dialog Box

Step 8 Enter the following information into the Profile Configuration dialog box:

Numbers—These fields specify the phone numbers of the remote site. These numbers must have all the necessary digits in order for the call to succeed. Do not enter dashes, commas, or parentheses. For more information, refer to the **set number** command.

Protocol—This field specifies the method of encapsulation used to communicate with the remote site. For more information, refer to the **set protocol** command.

Automatic dial—This option enables on-demand calling based on the demand parameters you set. Select the check box to enable automatic dialing on network activity.

Table 3-1 summarizes the conditions set by the Automatic Dial check box.

Table 3-1 Automatic Dialing

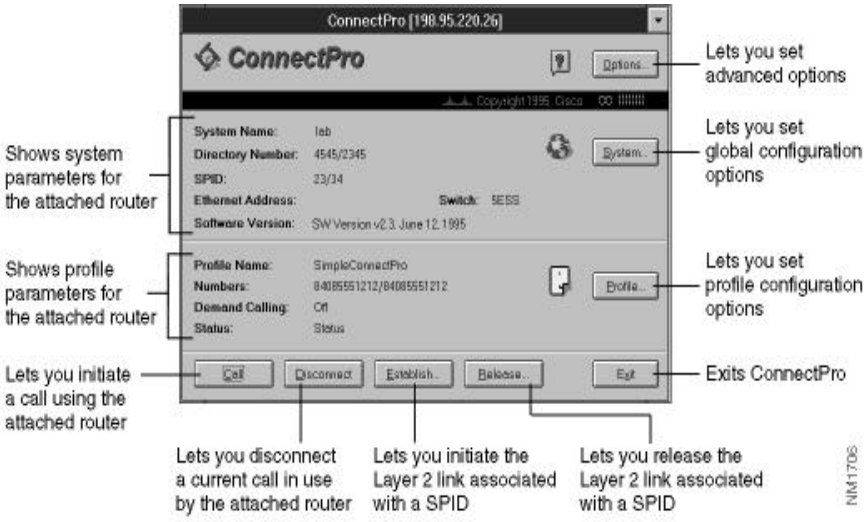
Set to On	Set to Off	Result
Set Auto Port 1|2 to On	Set Auto Port 1|2 to Off	Based on demand parameters you set using the **link** command, calls are initiated on each link when specified packet statistics are met.
Demand threshold Port 1 Port 2 = 48 kbps	Demand threshold Port 1 = 48 kbps Port 2 = 0	Specifies the data rate at which the router will make a call. This data rate must exist for the length of time specified in the parameter. The range is 0–128 kbps.
Demand duration Port 1 = 1 sec. Port 2 = 1 sec.	Demand duration Port 1 = 1 sec. Port 2	Specifies the length of time that the traffic is to be above the threshold before a call is made. The range is 1–255 seconds.
Demand source Port 1 = LAN Port 2 = Both	Demand source Port 1= Both Port 2	Specifies the source of the traffic when measuring the threshold.

Set to On	Set to Off	Result
Timeout threshold Port 1 Port 2 = 48	Timeout threshold Port 1 = 48 Port 2	Rate (kbps) of traffic below which the call is to be connected.
Timeout duration = Off	Timeout duration Port 1 = Off Port 2	Length of time (in seconds) that the traffic is to be below the threshold when the call is disconnected.
Timeout source Port 1 = LAN Port 2 = Both	Timeout source Port 1 = Both Port 2	See “Demand source.”
Set Profile PowerUp value to Active	Set Profile PowerUp value to Inactive	Determines whether profile is made active when router is powered up.
Set Profile PowerUp value to Disconnect Keep	Set Profile PowerUp value to Disconnect Keep	Determines whether profile remains active and connection virtual after physical disconnection.

Step 9 Click **OK** in the Global Configuration dialog box when you have finished entering the information. (If you have neglected to enter any required SPID, or if your ISDN line is not connected, a warning message will appear.)

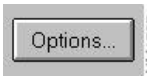
The Simplified Configuration menu is displayed. (See Figure 3-5.)

Figure 3-5 Simplified Configuration Menu



The simplified menu provides buttons that you can use to further configure your router. (See Figure 3-6.)

Figure 3-6 Options, System, and Profile Buttons Dialog Box



Click the Options button to enter the menus for advanced configuration.

Click the System button to enter global parameters that affect the entire router.

Click the Profile button to enter parameters on a per-profile basis.

Configuring Your Router

To configure your router, use the System button and follow the procedures in the Global Configuration dialog box.

Using the System button, you can quickly configure your router for operation. In the Global Configuration dialog box enter the router's name, switch type, and SPIDs (if required). Use the **Tab** key to move to the next field. As you move to the next field, the circled number changes chronologically, providing help dialog boxes for system setup.

Step 1 To set up global parameters, choose **system** from the simplified menu. The Global Configuration dialog box is displayed. (See Figure 3-7.)

Figure 3-7 Global Configuration Dialog Box

Step 2 Enter all required information into the Global Configuration dialog box.

Step 3 Click **OK**.

Configuring Your Simple Cisco ConnectPro Profile

Using the Profile button, you can configure a Simple Cisco ConnectPro profile.

To set up the Simple Cisco ConnectPro profile, choose **Profile** from the simplified menu. The Profile Configuration dialog box is displayed. (See Figure 3-8.)

Figure 3-8 Profile Configuration Dialog Box

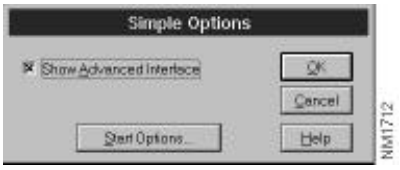
Enter the appropriate information into the Profile Configuration dialog box. For information about each field, see Step 8 in "Creating Configurations," which appears earlier in this chapter. Table 3-1, in the same section, summarizes the conditions set by the Automatic Dial check box.

The Cisco ConnectPro Options button provides an advanced menu so that you can view dialog boxes on all possible static and dynamic values used by a router.

To view the Simple options, do the following:

Step 1 Choose Options from the Simple Options dialog box. The Simple Options dialog box is displayed. (See Figure 3-9.)

Figure 3-9 Simple Options Dialog Box



Step 2 Select the check box to activate the Cisco ConnectPro advanced configuration information.

Step 3 Click the **Start Options** button to specify which Cisco ConnectPro configuration scheme will launch at subsequent Cisco ConnectPro startups. The Start Options dialog box is displayed. (See Figure 3-10.)

Figure 3-10 Start Options Dialog Box

Selecting the Startup Configuration dialog box enables you to register new routers by using their serial numbers or their Ethernet or IP addresses.

Selecting the simple interface at the start of Cisco ConnectPro enables you to always display the simple window at subsequent Cisco ConnectPro startups.

If you are using Cisco ConnectPro from a remote office with a single router, you should initially follow the simple menus to set up your router. If you are not responsible for initially configuring additional routers, the next time you launch Cisco ConnectPro, you may want to deselect these options from the Cisco ConnectPro Options dialog box. You can then skip over the Cisco ConnectPro initial configuration dialog boxes and proceed directly to the advanced features of Cisco ConnectPro.

Step 4 Click **OK** in the Start Options dialog box to activate your settings.

Step 5 Click **OK** in the Simple Options dialog box to start your specified interface.

Using the Advanced Menu

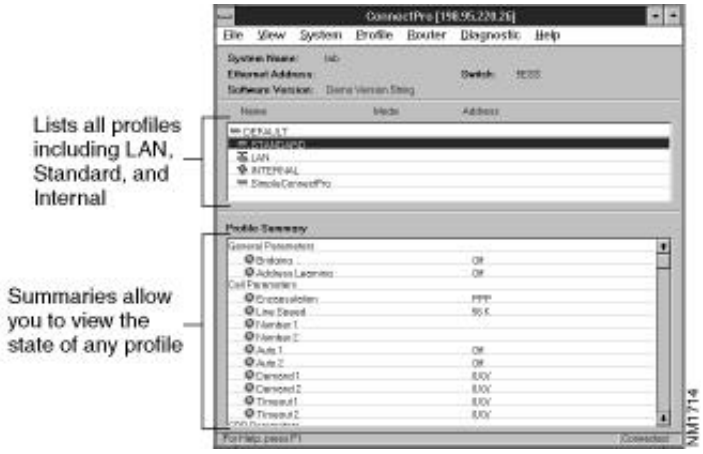
The Cisco ConnectPro advanced menu provides access to all of the Cisco ConnectPro configuration functions. Table 3-2 summarizes the Cisco ConnectPro advanced menu.

Table 3-2 Cisco ConnectPro Advanced Menu

To Do the Following	Choose This Menu
Access items that perform basic operations such as starting Cisco ConnectPro or opening a configuration file. You can also use the File menu to download software configurations to a file you specify.	File
Access items to view current configurations, including IP and IPX routing configurations.	View
Access items to establish system-level parameters.	System
Access items to establish profile-level parameters.	Profile
Access items to initiate or disconnect a call, establish or release a SPID, or reset or reboot your router.	Router
Access items to test the LAN and WAN connections.	Diagnostic

The Cisco ConnectPro advanced menu provides profile summaries for any profile, including the default LAN, internal, and standard profiles. The Cisco ConnectPro Advanced Menu dialog box is shown in Figure 3-11.

Figure 3-11 Advanced Menu Dialog Box



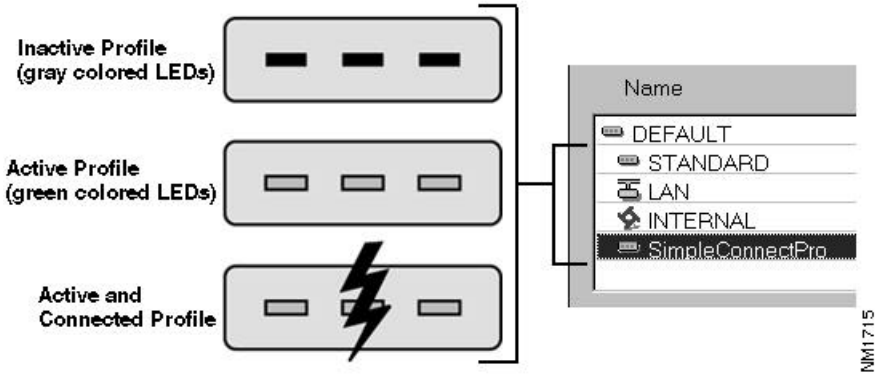
LAN profile—Determines how the router handles the data connection to the LAN.

Internal profile—Determines how the router handles the data being passed between the bridge engine and the IP/IPX engine.

Standard profile—Used for incoming WAN connections that do not have a profile. The standard profile does not support routing. This profile should be used to provide the appropriate configuration and security measures for unknown callers.

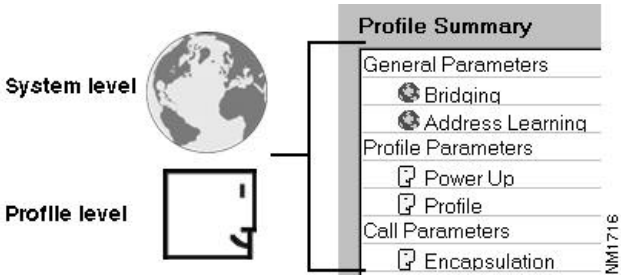
Profile icons on the advanced menu convey the state of the profile. (See Figure 3-12.)

Figure 3-12 Profile Icons on the Advanced Menu



The Profile Summary section enables you to view both system-level and profile-level parameters for any setting. (See Figure 3-13.) Click the level graphic of any parameter to toggle between its system-level and profile-level values.

Figure 3-13 Profile Summary Dialog Box



System-level graphic—Indicates that the particular configuration value has been inherited from the system level. If system-level configuration values change for this item, the profile value will also change for this value.

Profile-level graphic—Indicates that the particular configuration value has been set at the profile level. If system-level configuration values change for this item, the profile-level value will not change.

Customizing Your Router

You can use Cisco ConnectPro to customize any router to fit the requirements of your current task. As your needs change, you can modify any of the Cisco ConnectPro dialog boxes to accommodate your new requirements.

Using commands from the advanced menu, you can further configure your router. Table 3-3 summarizes some actions you can take using the Cisco ConnectPro advanced menu.

Note When configuring profile items from the Profile menu, select a profile from the Summaries list before choosing a Profile menu item.

Table 3-3 Advanced Configurations

To Do the Following	Choose	From
Open a Cisco ConnectPro configuration file	Open File	File menu
Log in to attached router	Login	File menu
Log out of attached router	Logout	File menu
Save current file	Save To File	File menu
Save current file to specified location while retaining current file	Save To File As	File menu
Send configuration file to attached router	Send to Access Unit	File menu

To Do the Following	Choose	From
Download new versions of Access Unit software	Download Software	File menu
Initiate the Cisco ConnectPro advanced menu	Options	File menu
Exit from Cisco ConnectPro	Exit	File menu
Toggle the Cisco ConnectPro status bar	Status Bar	View menu
Display the Cisco ConnectPro simple menus	Simple	View menu
Display known Ethernet addresses	Addresses	View menu
Display all current connections	Connections	View menu
Display a log of the Cisco ConnectPro call activities	Logs	View menu
Display packet count statistics	Packet Summary	View menu
Display negotiation parameter	Negotiation	View menu
Display the current status of ISDN links	Status	View menu
Display static and dynamic IP routes for all active profiles	IP Routes	View menu
Display IPX connection information	IPX Connections	View menu
Display IPX Routing Information Protocol (RIP)/Service Advertising Protocol (SAP) statistics	IPX Demand	View menu
Display the current routing table	IPX Routes	View menu
Display static SAP entries	IPX Services	View menu
Display IPX, RIP, and SAP statistic summaries	IPX Statistics	View menu

To Do the Following	Choose	From
Enter system parameters that globally affect the router	Global	System menu
Enter general parameters that globally affect the router	General	System menu
Turn Unicast bridge filtering on or off and set the LAN and WAN filtering modes	Bridge Filter	System menu
Define or modify various bridging filters	Bridge Filter Lists	System menu
Set global parameters that affect the router when using Combinet Packet Protocol (CPP)	CPP	System menu
Set global security parameters that affect the router when using CPP	CPP Security	System menu
Set global parameters that affect the router when using the Point-To-Point Protocol (PPP)	PPP	System menu
Set security parameters that globally affect the router when using PPP protocol	PPP Security	System menu
Provide parameters that control automatic dialing and disconnection of the router's links	Link	System menu
Set SNMP parameters that globally affect the router when using SNMP	SNMP	System menu
Enter parameters that affect the router on a per-profile basis	General	Profile menu
Define or modify various filters on a per-profile basis	Filter Lists	Profile menu
Define CPP compression and protocol	CPP	Profile menu
Define security parameters for the profile when using CPP	CPP Security	Profile menu

To Do the Following	Choose	From
Define security parameters for the profile when using PPP	PPP Security	Profile menu
Define parameters that control automatic dialing and disconnection of the router's links on a per-profile basis	Link	Profile menu
Define IP routing on a per-profile basis	IP	Profile menu
Set up or modify static IP routes and IP filters on a per-profile basis	IP Lists	Profile menu
Specify support for IPX routing on a per-profile basis	IPX	Profile menu
Define or modify static IPX routes and IPX filters on a per-profile basis	IPX Lists	Profile menu
Set the active status on the selected inactive profile	Active	Profile menu
Initiate a call on the specified link using a specified phone number	Call	Router menu
Terminate any currently connected call	Disconnect	Router menu
Initialize the Layer 2 link of a SPID	Establish	Router menu
Release the Layer 2 link of a SPID	Release	Router menu
Set all variable parameters to their default values	Reset System	Router menu
Perform a software reset of the router	Reboot System	Router menu
Perform a test of the LAN connection	Packet Test	Diagnostic menu
Perform a test of the ISDN links	Packet Test	Diagnostic menu
Ping (contact) the specified IP address	Ping	Diagnostic menu