

Manipulating WSA Network Entities

This chapter explains how to create, modify, and use the network entities available in the Cisco WSA Explorer application:

- Connections on page 5-2
- Net Links on page 5-18

Connections

The following sections give detailed information about the **Connections** entity:

- Connections—Create on page 5-2
- Connections—Create on page 5-2
- Connections—Modify on page 5-14
- Connections—Delete on page 5-15

Connections—Description

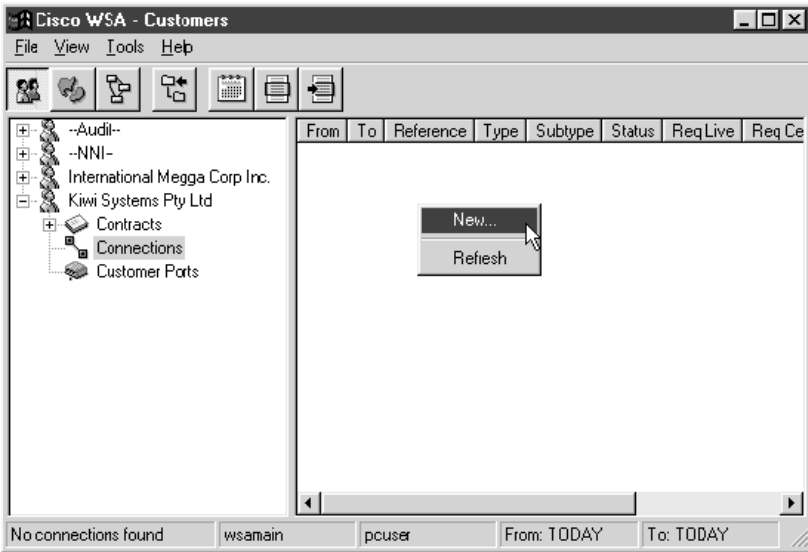
Provisioning Connections in the physical network is the ultimate goal of WSA. Connections are network entities that terminate at Customer Ports and therefore *belong* to customers.

Connections—Create

To create a new Connection, select **Connections** from the customer view and activate the **New...** right mouse menu from the list view popup menu, as shown in Figure 5-1, “Connection List”.

Note In the connection list, the icon colors are associated by connection type. Red is for Frame Relay; blue is for ATM; and yellow is for ATM to Frame Relay Interworking.

Figure 5-1 Connection List



22755

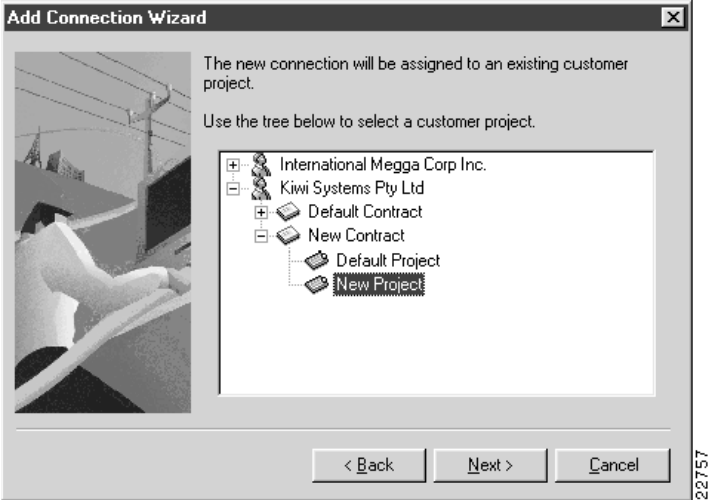
An Add Connection Wizard appears, as shown in Figure 5-2, “Add Connection Wizard”.

Figure 5-2 Add Connection Wizard



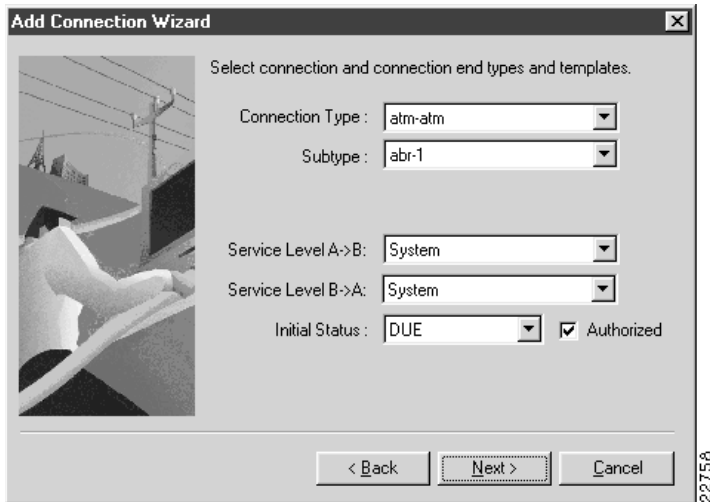
Click **Next** to continue, and select a project that contains the customer ports at which this connection will terminate, as shown in Figure 5-3, “Selecting a Project”.

Figure 5-3 **Selecting a Project**



Click **Next** to continue, and select the connection type and subtype together with the required service levels and initial status. Check **Authorized** if this connection has already been approved for provisioning, as shown in Figure 5-4, “Setting the Connection Type”.

Figure 5-4 **Setting the Connection Type**



The screenshot shows a dialog box titled "Add Connection Wizard" with a close button (X) in the top right corner. On the left side, there is a small graphic of a person's hands typing on a computer keyboard. The main area contains the following fields and controls:

- Instruction: "Select connection and connection end types and templates."
- Connection Type: A dropdown menu with "atm-atm" selected.
- Subtype: A dropdown menu with "abr-1" selected.
- Service Level A->B: A dropdown menu with "System" selected.
- Service Level B->A: A dropdown menu with "System" selected.
- Initial Status: A dropdown menu with "DUE" selected, followed by a checked checkbox labeled "Authorized".

At the bottom of the dialog, there are three buttons: "< Back", "Next >" (which is highlighted with a dashed border), and "Cancel".

22758

Click **Next** to continue, and select the live and cease dates and times for the connection, as shown in Figure 5-5, “Setting Live and Cease Dates and Times”.

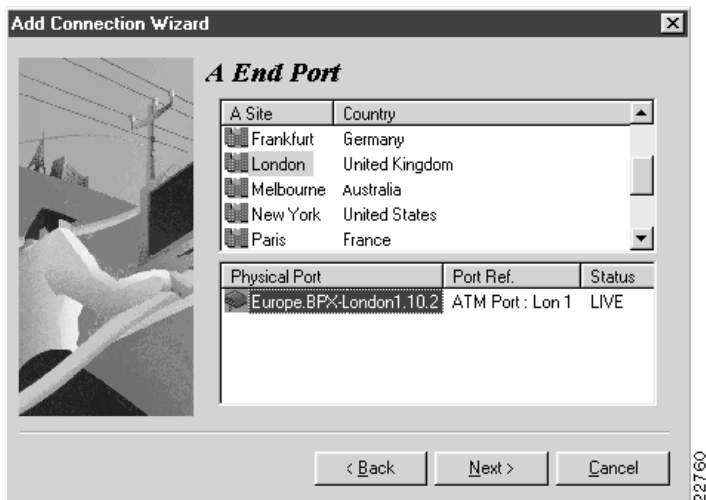
Figure 5-5 **Setting Live and Cease Dates and Times**



22759

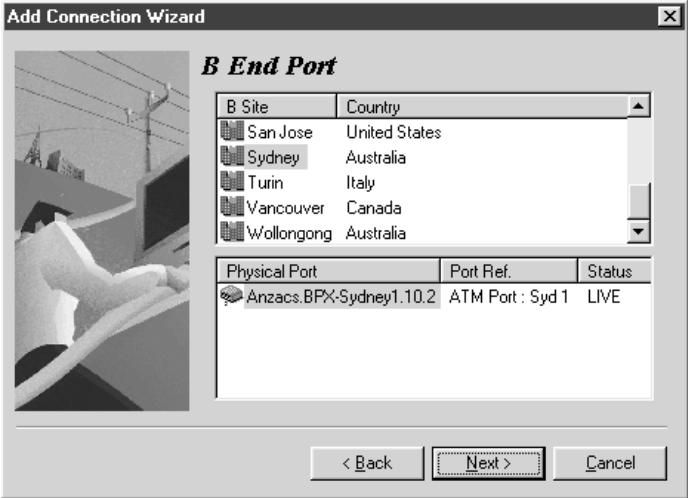
Click **Next** twice to continue. After selecting the site and choosing from the available customer ports at that site, select a customer port for the A end of the connection, as shown in Figure 5-6, “Selecting the A End Customer Port”.

Figure 5-6 **Selecting the A End Customer Port**



Click **Next** to continue. After selecting the site and choosing from the available customer ports at that site, select a customer port for the B end of the connection, as shown in Figure 5-7, “Selecting the B End Customer Port”.

Figure 5-7 **Selecting the B End Customer Port**

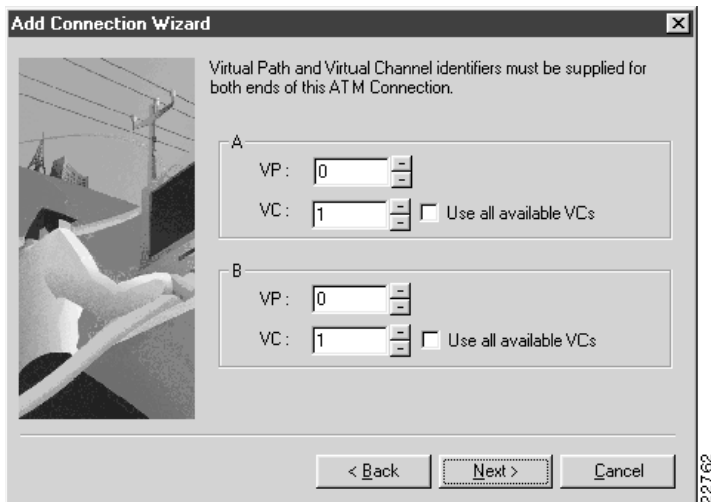


Click **Next** to continue and select the virtual path (VP) and virtual channel (VC) for this connection, as shown in Figure 5-8, “Selecting Virtual Paths and Channels”.

The default values displayed are the ones that are available at the time of selection, but any other values can be selected. If the chosen values are already in use, you will be informed of this later and the connection will not be created.

If, as shown in Figure 5-8, “Selecting Virtual Paths and Channels”, this is the first connection to be created on the physical port allocated to the chosen customer port, then you can check the appropriate box and have the option to use all the available VCs.

Figure 5-8 **Selecting Virtual Paths and Channels**

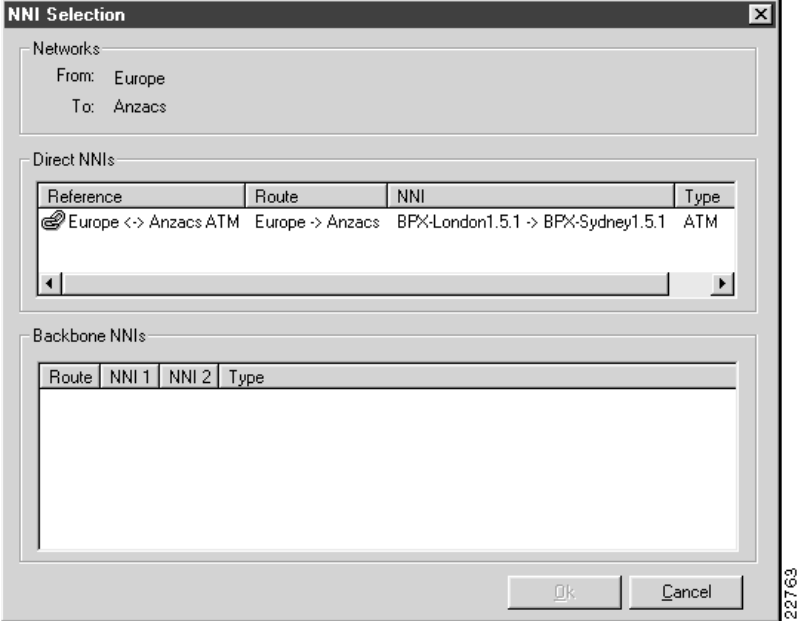


Note If the connection that you are adding is Frame Relay, this section of the Wizard prompts you to enter the DLCIs for both ends of the connection. If this is the first connection on the physical port allocated to the selected customer port, you have the option to set frame forwarding for this connection.

Click **Next** to continue.

If the customer ports chosen for the two ends of the connection are in different networks, you must select a direct or indirect (backbone) NNI between them to choose a route between these networks, as shown in Figure 5-9, “Selecting NNIs”.

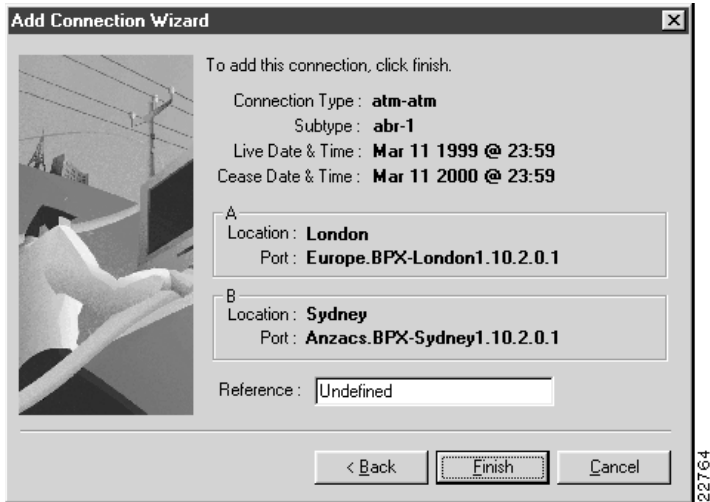
Figure 5-9 **Selecting NNIs**



22763

Regardless of whether or not you had to choose an NNI, you will now see a connection summary, as shown in Figure 5-10, “Connection Summary”.

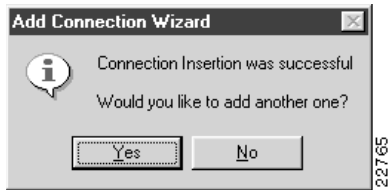
Figure 5-10 Connection Summary



Enter a reference for this connection and press Finish to create the connection.

When the customer port is successfully created, you are asked if you want to create another Customer Port, as shown in Figure 5-11, “Add Another Prompt”.

Figure 5-11 Add Another Prompt

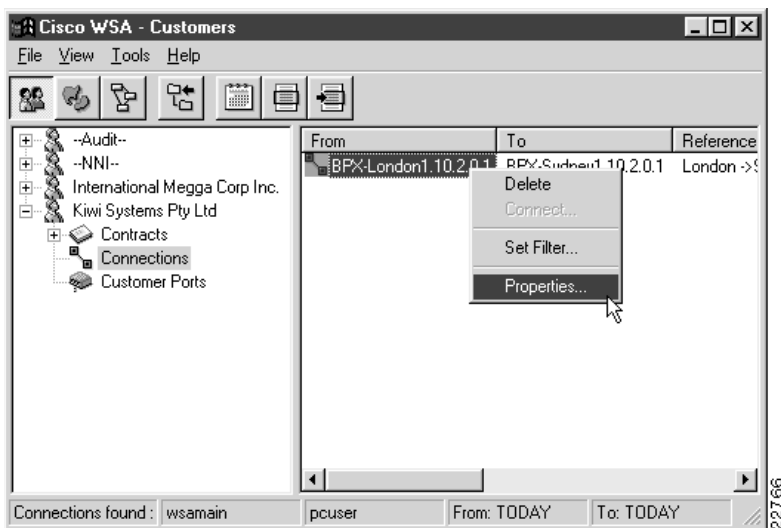


Press **Yes** to return to the Add Customer Port Wizard; or press **No** to close the Wizard and return to the Customer Port List.

Connections—Modify

To modify an existing Connection, select **Connections** in the customer view and activate the **Properties...** right mouse menu from the item menu, Figure 5-12, “Selecting a Connection for Modification”.

Figure 5-12 Selecting a Connection for Modification



A Connection Properties dialog appears, as shown in Figure 5-13, “Connection Properties”.

Figure 5-13 Connection Properties

Customer: Kiwi Systems Pty Ltd Type: atm-atm

Project: New Project Status: DUE

Authorized Modelled

Reference: London -> Sydney ATM # 1

Go Live on: 1999-03-11 @ 23:59

Cease on: 2000-03-11 @ 23:59

Went Live: Inserted By: pcuser

Ceased: Inserted on: 1999-03-11

PVCs:

From	To	Type
BPX-London1.10.2.0.1	BPX-London1.5.1.1.2	atm-atm
BPX-Sydney1.5.1.1.2	BPX-Sydney1.10.2.0.1	atm-atm

OK Apply Cancel

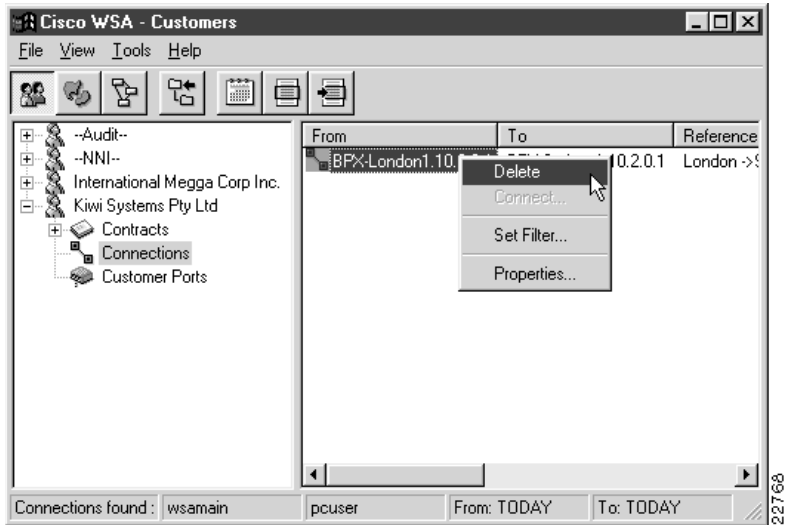
If the connection has been provisioned in the physical network by the WSA Control System, the **Went Live** field is populated with the date and time that the connection occurred.

Once you complete the settings for this Connection, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Connections—Delete

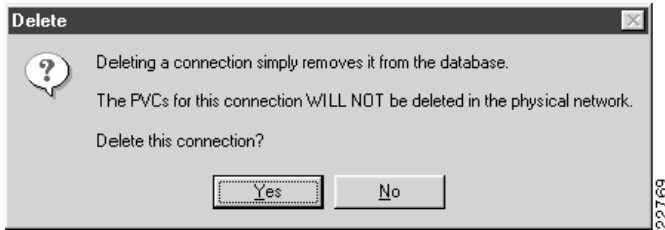
To delete a Connection, select **Connections** in the tree view and activate the **Delete...** right mouse menu from the item menu, as shown in Figure 5-14, “Selecting a Connection for Deletion”.

Figure 5-14 **Selecting a Connection for Deletion**



A delete confirmation dialog appears, as shown in Figure 5-15, “Connection Delete Confirmation”.

Figure 5-15 Connection Delete Confirmation



Press **Yes** to delete the connection; or press **No** if you decide not to delete it.

Note When a connection is deleted from the WSA database, no network configuration commands are generated by the WSA control system. If you want to delete a connection from the physical network, you must set its cease date to some time in the near future and monitor its status until it becomes CEASED.

Net Links

The following sections give detailed information about the **Net Links** entity:

- Net Links—Description on page 5-18
- Net Links—Create Trunk on page 5-19
- Net Links—Create NNI on page 5-28
- Net Links—Modify on page 5-36
- Net Links—Delete on page 5-36

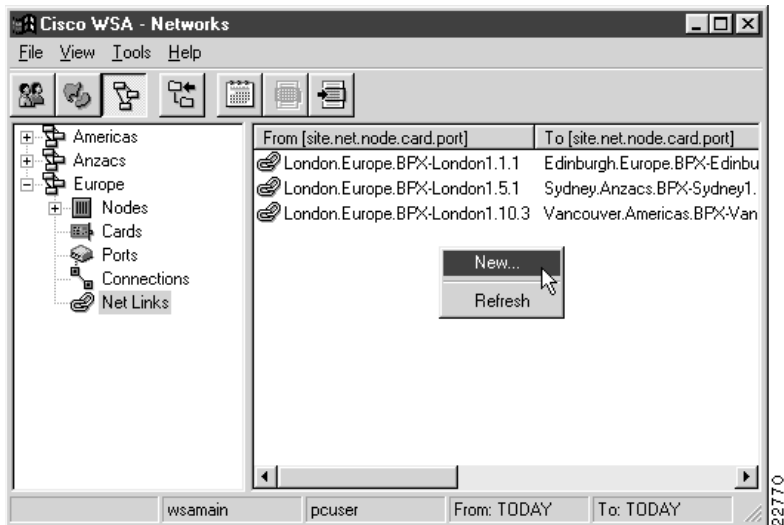
Net Links—Description

Net Links are network entities that fall into two categories—Trunks and Network to Network Interconnects (NNIs). Both categories terminate at customer ports belonging to the built-in NNI customer.

Net Links—Create Trunk

To create a new Net Link, select **Net Links** from the network or location view and activate the **New...** right mouse menu from the list view popup menu, as shown in Figure 5-16, “Net Link List”.

Figure 5-16 Net Link List



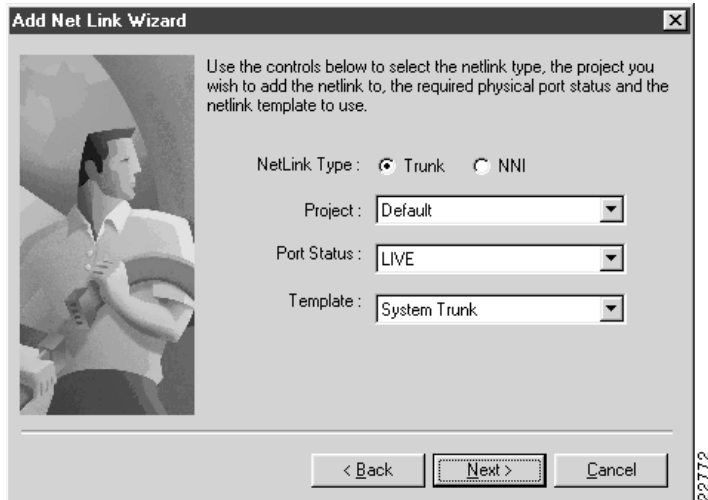
An Add Net Link Wizard appears, as shown in Figure 5-17, “Add Net Link Wizard”.

Figure 5-17 Add Net Link Wizard



Click **Next** to continue. Select the net link type as **Trunk** and select the project port status and template for the trunk, as shown in Figure 5-18, “Selecting Net Link Type—Trunk”.

Figure 5-18 Selecting Net Link Type—Trunk



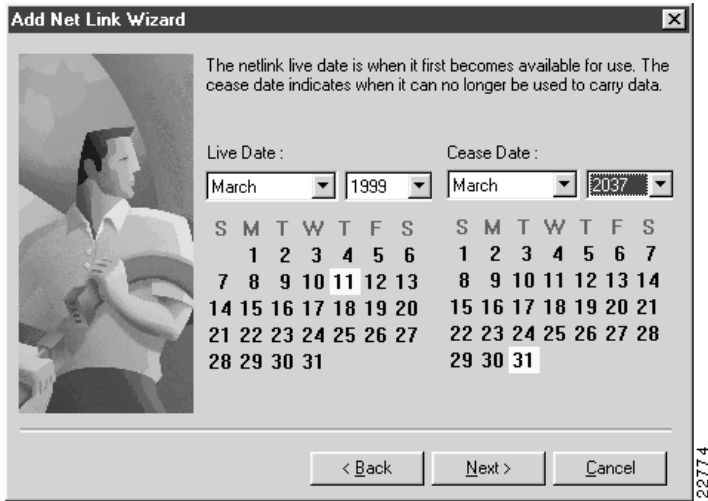
Click **Next** to continue. Select the trunk end point locations, as shown in Figure 5-19, “Selecting Trunk End Point Locations”.

Figure 5-19 **Selecting Trunk End Point Locations**



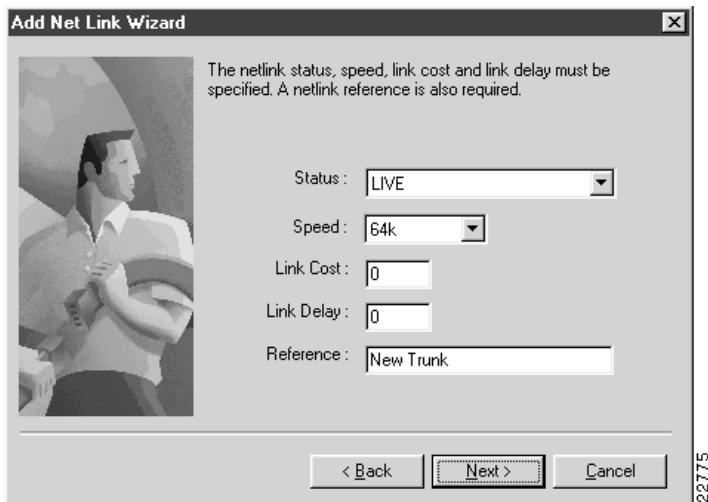
Click **Next** to continue, and select the live and cease dates for the trunk, as shown in, Figure 5-20, “Selecting Trunk End Dates”.

Figure 5-20 **Selecting Trunk End Dates**



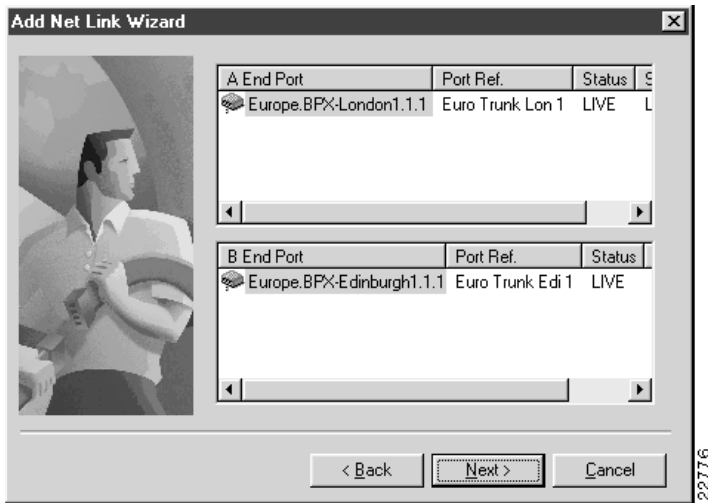
Click **Next** to continue. Set the status and speed for the trunk and enter a link cost, link delay, and reference string, as shown in Figure 5-21, “Setting Trunk Details”.

Figure 5-21 **Setting Trunk Details**



Click **Next** twice to continue, and choose the customer ports belonging to the NNI customer for each end of the trunk, as shown in Figure 5-22, “Selecting Customer Ports”.

Figure 5-22 **Selecting Customer Ports**



32776

Click **Next** twice to continue and you will see a summary page, as shown in Figure 5-23, “Net Link Summary”.

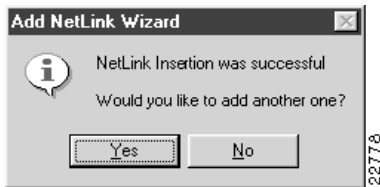
Figure 5-23 Net Link Summary



Press **Finish** to create the trunk.

When the trunk is successfully inserted, you are asked whether you want to make another insertion, as shown in Figure 5-24, “Add Another Prompt”.

Figure 5-24 Add Another Prompt

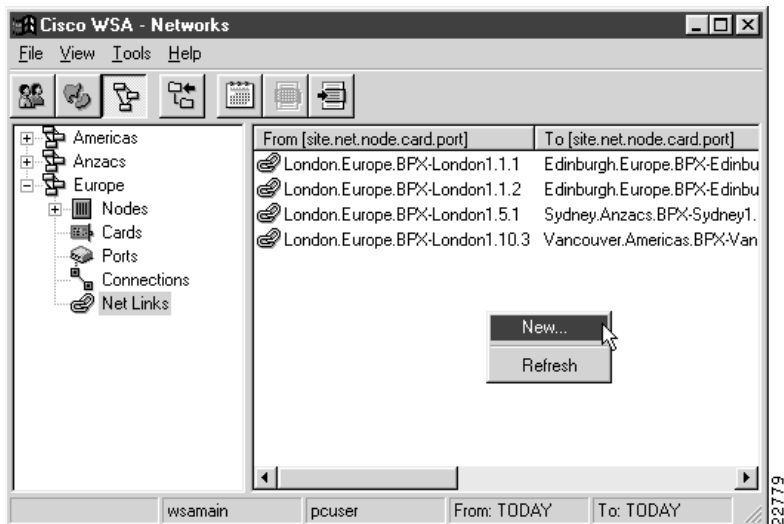


Press **Yes** to return to the Add Net Link Wizard; or press **No** to close the Wizard and return to the Net Link List.

Net Links—Create NNI

To create a new Net Link, select **Net Links** from the network or location view and activate the **New...** right mouse menu from the list view popup menu, as shown in Figure 5-25, “Net Link List”.

Figure 5-25 Net Link List



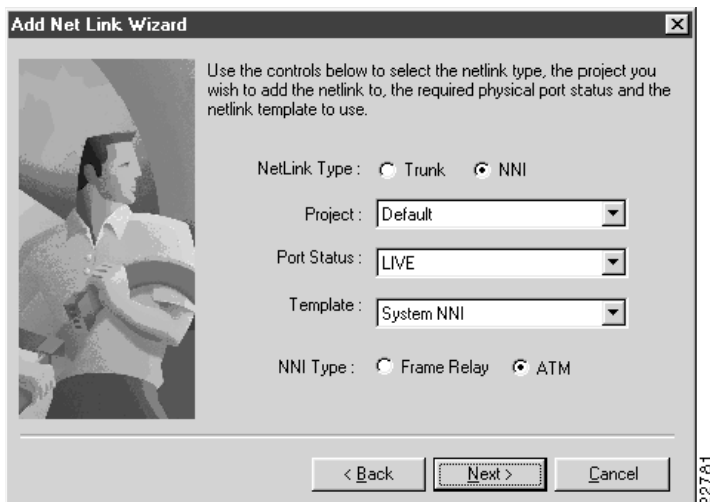
An Add Net Link Wizard appears, as shown in Figure 5-26, “Add Net Link Wizard”.

Figure 5-26 Add Net Link Wizard



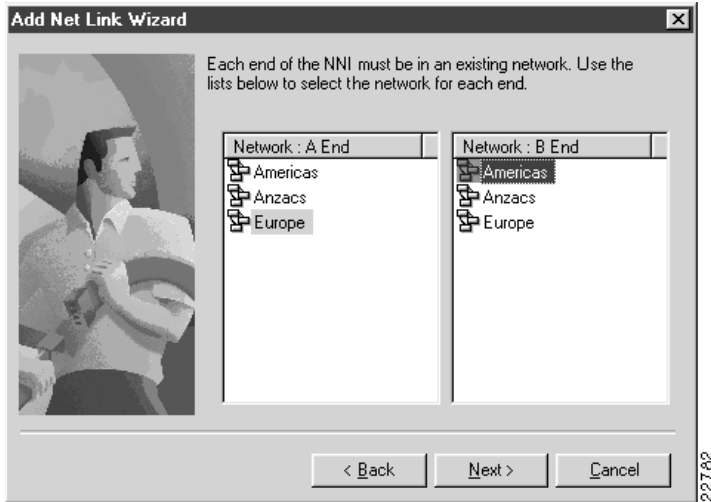
Click **Next** to continue. Select the net link type as **NNI** and indicate whether the NNI is to be ATM or Frame Relay, as shown in Figure 5-27, “Selecting Net Link Type—NNI”.

Figure 5-27 Selecting Net Link Type—NNI



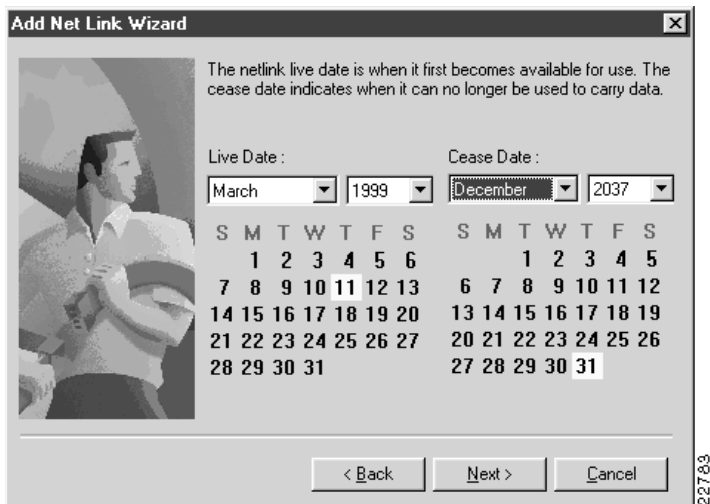
Click **Next** to continue, and select the two networks that the NNI will be between, as shown in Figure 5-28, “Selecting Networks”.

Figure 5-28 **Selecting Networks**



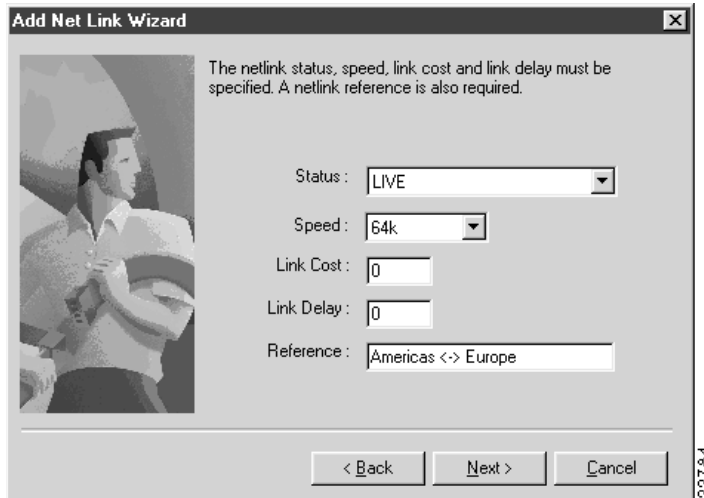
Click **Next** to continue, and select the end dates for the NNI, as shown in Figure 5-29, “Selecting End Dates”.

Figure 5-29 **Selecting End Dates**



Click **Next** to continue. Select the status and speed for the NNI and enter a link cost, link delay, and reference string, as shown in Figure 5-30, “Setting NNI Details”.

Figure 5-30 Setting NNI Details



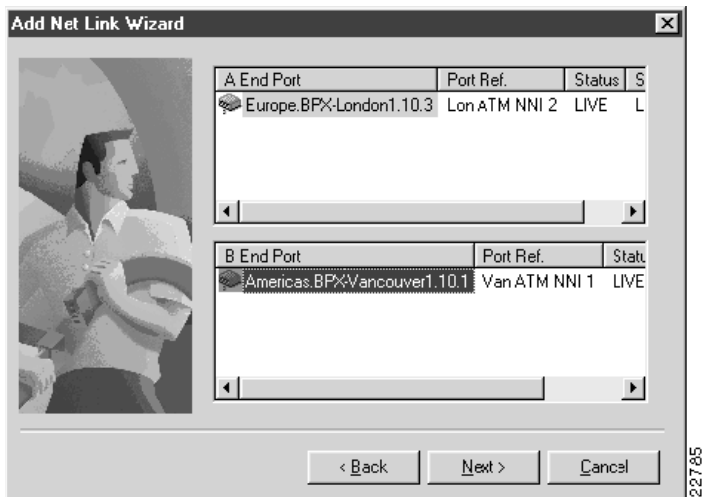
The screenshot shows a dialog box titled "Add Net Link Wizard" with a close button in the top right corner. On the left side, there is a grayscale illustration of a man in a white shirt looking at a document. To the right of the illustration, the following text is displayed: "The netlink status, speed, link cost and link delay must be specified. A netlink reference is also required." Below this text are five input fields:

- Status: A dropdown menu with "LIVE" selected.
- Speed: A dropdown menu with "64k" selected.
- Link Cost: A text input field containing "0".
- Link Delay: A text input field containing "0".
- Reference: A text input field containing "Americas <-> Europe".

At the bottom of the dialog box, there are three buttons: "< Back", "Next >", and "Cancel". A vertical number "22784" is printed on the right edge of the dialog box.

Click **Next** to continue and select the customer ports for each end of the NNI, as shown in Figure 5-31, “Selecting Customer Ports”.

Figure 5-31 **Selecting Customer Ports**



Click **Next** twice to continue and you will see a summary page, as shown in Figure 5-32, “Net Link Summary”.

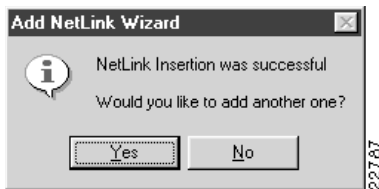
Figure 5-32 Net Link Summary



Press **Finish** to create the NNI.

When the NNI insertion is successful, you are asked whether you want to make another insertion, as shown in Figure 5-33, “Add Another Prompt”.

Figure 5-33 Add Another Prompt



Press **Yes** to return to the Add Net Link Wizard; or press **No** to close the Wizard and return to the Net Link List.

Net Links—Modify

Note This version of Cisco WSA does not allow modification of Net Links.

Net Links—Delete

Note This version of Cisco WSA does not allow deletion of Net Links.
