CHAPTER 11

LAN Segment Windows

This chapter describes the uses and components of the LAN Segment Configuration and underlying windows displayed as a result of clicking on the buttons within the LAN Segment Configuration window. The following windows are described in this chapter:

- LAN Segment Configuration
- End System
- IP Client Requirements
- IPX Client Requirements
- IPX SAP Server Requirements

Note The Connectivity Baseliner allows LAN segment attributes to be viewed, not modified. The Connectivity Solver allows LAN segment attributes to be modified as well. LAN segment attributes can only be modified when using the last scenario in the Connectivity Tools window's Scenarios list. When using any other scenario, including the initial baseline scenario, the attributes may only be *viewed*.

You display the LAN Segment Configuration window in one of the following ways:

- by double-clicking on a LAN segment icon or by pressing the right mouse button over a LAN segment icon and then selecting the **Display Parameters** option in the Topology window
- by selecting a LAN entry in the Find Device window's Results list and then clicking on the **Parameters** button
- by double-clicking on a LAN segment entry in the Round Trip Path window's Round Trip Path list

See "Creating the Topology" for detailed information about the Topology window. See "Find Device Window" for detailed information about the Find Device window and "Round Trip Path Window" for detailed information about the Round Trip Path window. Tutorials pertaining to some of the features described in this chapter are provided in the *Enterprise/Solver Connectivity Tools User's Guide*.

General Window Components

The following buttons are present in several windows. For brevity, they are described once here.

- Context

The **Context** button is used as a mechanism for switching the context from one LAN Segment window to or from another. It allows navigation to and from subsequently invoked windows. For example, if you click on the **View End System** button in the LAN Segment window, the End System window is displayed. Clicking on the **Context** button at this point displays LAN Segment and End System menu options. Select the LAN Segment option to dismiss the End System window and display the LAN Segment window.

- Apply

  Click on the **Apply** button to apply changes you have made in the current window. This button is not displayed when using the Connectivity Baseliner, when the initial baseline scenario is selected, or when a baseline scenario other than the last scenario in the Scenarios list in the Connectivity Tools window is selected.

- Revert

  Click on the **Revert** button to undo the changes made since you last clicked on the **Apply** button. This button is not displayed when using the Connectivity Baseliner, when the initial baseline scenario is selected, or when a baseline scenario other than the last scenario in the Scenarios list in the Connectivity Tools window is selected.

- Close

  Click on the **Close** button to dismiss the current window.

- Help

  Provided you have access to a Mosaic™ or Netscape™ HTML browser, clicking on the **Help** button displays documentation about the corresponding window. The HTML browser specified by the ECSP_HELPVIEWER environment variable is used for this purpose.

LAN Segment Configuration Window

The LAN Segment Configuration window, shown in Figure 11-1, provides an external view of the selected LAN segment. Buttons are supplied allowing the context to change to various internal views of the LAN segment. Placing the cursor within the LAN Segment Configuration window highlights that LAN segment's icon in the Topology window.

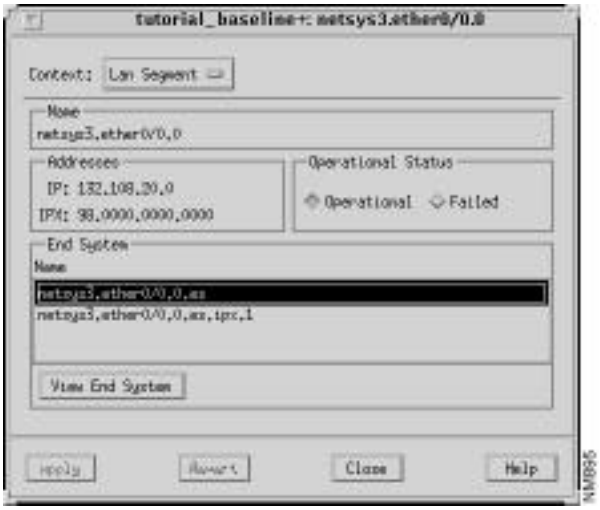

Figure 11-1 LAN Segment Configuration Window

LAN Segment Configuration Window Components

The LAN Segment window contains the components described below. See “General Window Components” for a description of the **Context**, **Apply**, **Revert**, **Close**, and **Help** buttons.

Name

The symbolic name of the LAN segment is displayed in this field.

Addresses

The IP and IPX network addresses (where applicable) of the LAN segment is displayed in this field.

Operational Status Buttons

Click on the appropriate toggle button to set the operational status of the LAN segment to an operational or failed state. Clicking on the **Failed** button followed by the **Apply** button turns the corresponding icon in the Topology window red indicating the LAN segment has failed. An analysis run at this point shows the effects on the internetwork of the failed LAN segment.

Clicking on the **Operational** button followed by the **Apply** button turns the corresponding icon in the Topology window back to its original color indicating the LAN segment is currently operational. An analysis run at this point shows the effects on the internetwork of the operational LAN segment. `Operational` is the default setting.

Note These buttons are not functional when using the Connectivity Baseliner or when a scenario other than the last scenario in the Scenarios list in the Connectivity Tools window is selected.

End System - Name

The symbolic names of the end systems modeled on this LAN segment are displayed in this pane.

View End System Button

Click on this button to switch the context from the LAN Segment window to the End System window. Prior to clicking on this button, an end system from the entries displayed in the End System Name list *must* be selected. See “End System Window” for detailed information about the End System window components.

End System Window

The End System window, shown in Figure 11-2, is displayed when you select an end system in the End System Name list in the Lan Segment window and then click on the **View End System** button. This window displays the configuration requirements of an end system connected to the LAN segment running the IP, IPX, or SAP router protocols.

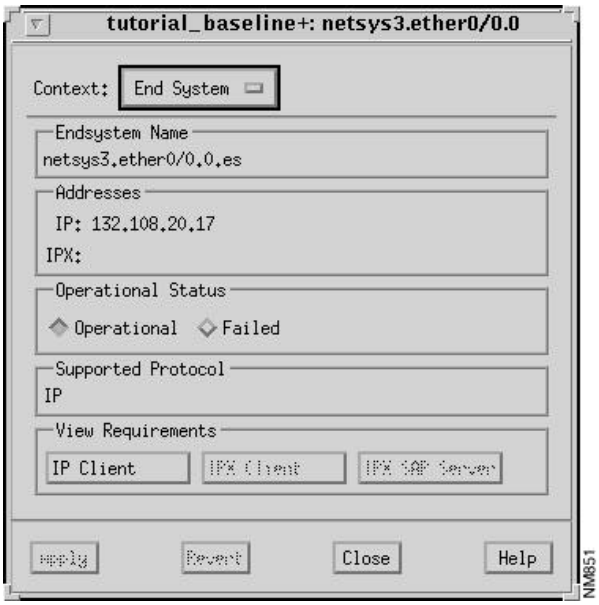

Figure 11-2 LAN End System Window

End System Window Components

The End System window contains the components described below. See "General Window Components" for a description of the **Context**, **Apply**, **Revert**, **Close**, and **Help** buttons.

End System Name

The symbolic name of the end system is displayed in this field.

Addresses

The IP or IPX network address, in dotted-decimal format, of the selected end system is displayed in this field.

Operational Status Buttons

Click on the appropriate toggle button to set the operational status of the end system to an operational or failed state. Clicking on the **Failed** button followed by the **Apply** button turns the corresponding icon in the Topology window red. An analysis run at this point will show the effects on the internetwork of the failed end system.

Clicking on the **Operational** button followed by the **Apply** button turns the corresponding icon in the Topology window back to its original color. An analysis run at this point will show the effects on the internetwork of the operational end system. `Operational` is the default setting.

Note These buttons are not functional when using the Connectivity Baseliner or when a scenario other than the last scenario in the Scenarios list in the Connectivity Tools window is selected.

Supported Protocol

The network protocol (IP or IPX) supported by this LAN segment is displayed in this pane.

View Requirements - IP Client Button

Click on this button to switch the context from the End System window to the IP Client Requirements window. See “IP Client Requirements Window” for detailed information about the IP Client Requirements window. This button is not activated if the IP protocol is not supported on the LAN.

View Requirements - IPX Client Button

Click on this button to switch the context from the End System window to the IPX Client Requirements window. See “IPX Client Requirements Window” for detailed information about the IPX Client Requirements window. This button is not activated if the IPX protocol is not supported on the LAN.

View Requirements - IPX SAP Server Button

Click on this button to switch the context from the End System window to the IPX SAP Server Requirements window. See “IPX SAP Server Requirements Window” for detailed information about the IPX SAP Server Requirements window. This button is not activated if the IPX protocol is not supported on the LAN.

IP Client Requirements Window

The IP Client Requirements window, shown in Figure 11-3, is displayed when you click on the **IP Client** button in the End System window. This window displays the IP connectivity requirements currently in effect for this end system, as defined in an IP connectivity requirement file set that has been loaded and analyzed. See “General Window Components” for a description of the **Context**, **Apply**, **Revert**, **Close**, and **Help** buttons.

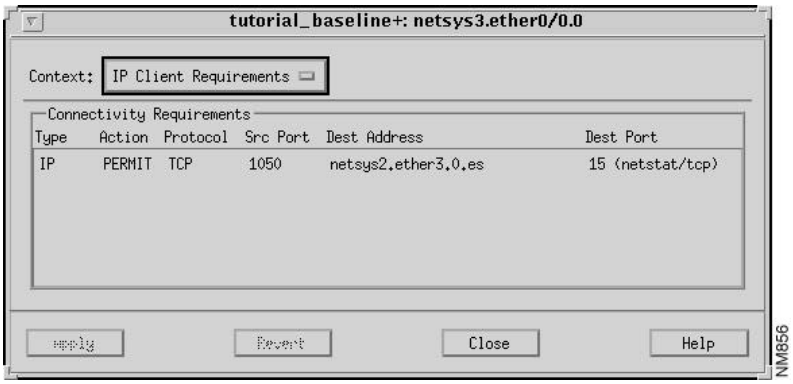

Figure 11-3 IP Client Requirements Window

IP Client Requirements Window Components

The IP Client Requirements window contains the components described below.

Connectivity Requirements - Type

The selected protocol (IP) is displayed in this field.

Connectivity Requirements - Action

Whether access from this source end system over the port specified in the `Src Port` column is permitted or denied to the destination address, is displayed in this field.

Connectivity Requirements - Protocol

The protocol supported is displayed in this field. Possible values are TCP, UDP, ICMP, or other IP.

Connectivity Requirements - Src Port

The source port number used to connect to the destination end system is displayed in this field.

Connectivity Requirements - Dest Address

The destination address of the end system is displayed in this field.

Connectivity Requirements - Dest Port

The TCP/UDP/ICMP/IP port number corresponding to a predefined IP Service on the destination end system is displayed in this field. A user defined port number is listed as corresponding to an unknown TCP/UDP service.

IPX Client Requirements Window

The IPX Client Requirements window, shown in Figure 11-4, is displayed when you click on the **IPX Client** button in the End System window. This window displays the IPX connectivity requirements, as defined in an IPX connectivity requirement file set. See “General Window Components” for a description of the **Context**, **Apply**, **Revert**, **Close**, and **Help** buttons.

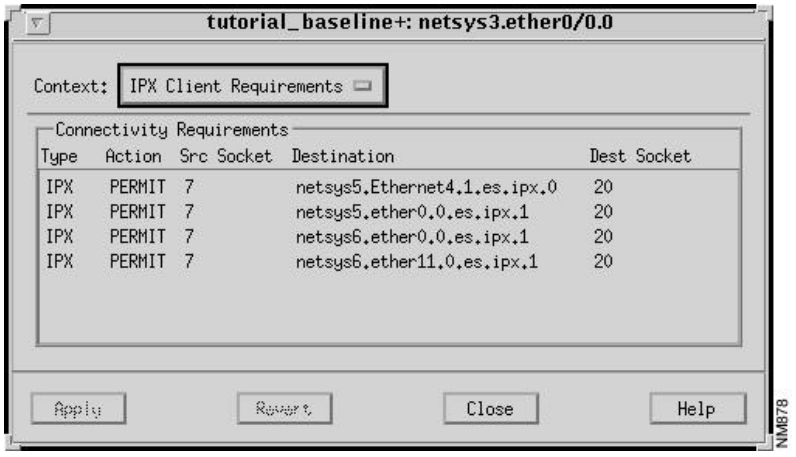

Figure 11-4 IPX Client Requirements Window

IPX Client Requirements Window Components

The IPX Client Requirements window contains the components described below.

Connectivity Requirements - Type

The selected protocol (IPX) is displayed in this field.

Connectivity Requirements - Action

Whether access from this source end system over the socket specified in the `Src Socket` column is permitted or denied to the destination address, is displayed in this field.

Connectivity Requirements - Src Socket

The source socket number used to connect to the destination end system is displayed in this field.

Connectivity Requirements - Destination

The destination address of the end system is displayed in this field.

Connectivity Requirements - Dest Socket

The socket number to be used at the destination end system is displayed in this field.

IPX SAP Server Requirements Window

e IPX SAP Server Requirements window, shown in Figure 11-5, is displayed when you click on the **IPX SAP Server** button in the End System window. This window displays the IPX SAP Server connectivity requirements, as defined in a SAP connectivity requirement file set. See “General Window Components” for a description of the **Context**, **Apply**, **Revert**, **Close**, and **Help** buttons.

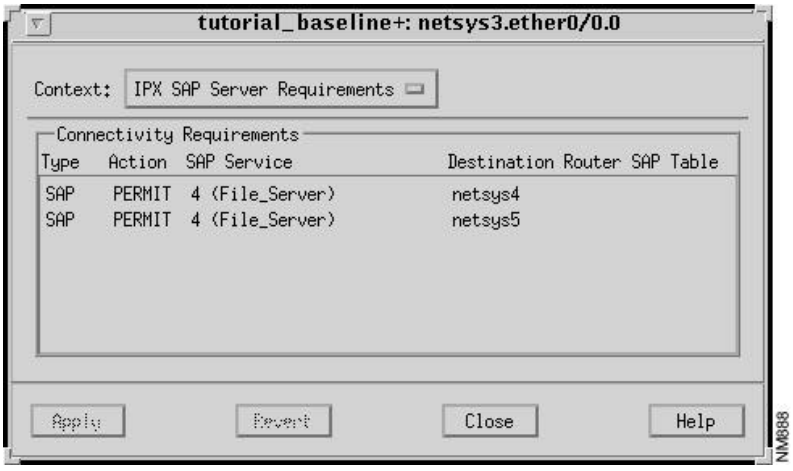

Figure 11-5 IPX SAP Server Requirements Window

IPX SAP Server Requirements Window Components

The IPX SAP Server Requirements window contains the components described below.

Connectivity Requirements - Type

The protocol (SAP) providing the required service is displayed in this field.

Connectivity Requirements - Action

Whether advertisement of the SAP service specified is permitted or denied in the SAP Table of the destination router, is displayed in this field.

Connectivity Requirements - SAP Service

The number of the SAP service to be added to the SAP Table of the destination router, is displayed in this field.

Connectivity Requirements - Destination Router SAP Table

The router whose SAP Table should contain (if a permit requirement) or not contain (if a deny requirement) the specified SAP service, is displayed in this field.