

Saving Router Configuration Changes

Overview

This chapter provides a tutorial using the Connectivity Tools configuration changes feature to provide information about modifications made to a router's attributes and how to produce an IOS delta file of the modifications for inclusion into the router's configuration file.

The following tasks are performed and described in this tutorial:

- modifications are made to a router's configuration
- the changes are viewed in the Config Text window
- the changes are viewed in the Configuration Delta-Baseline window
- the information and IOS delta commands are saved to files

In previous chapters, router configurations have been changed within a scenario. The Connectivity Tools allow such changes to be exported in several ways, which are demonstrated in this scenario.

Tutorial

Having proceeded through the steps of creating and opening the *tutorial_baseline* baseline, as described in the first tutorial, the Connectivity Tools window, shown in Figure 12-1, is displayed. See “Creating and Opening a Baseline” for information on how to create and open a baseline.

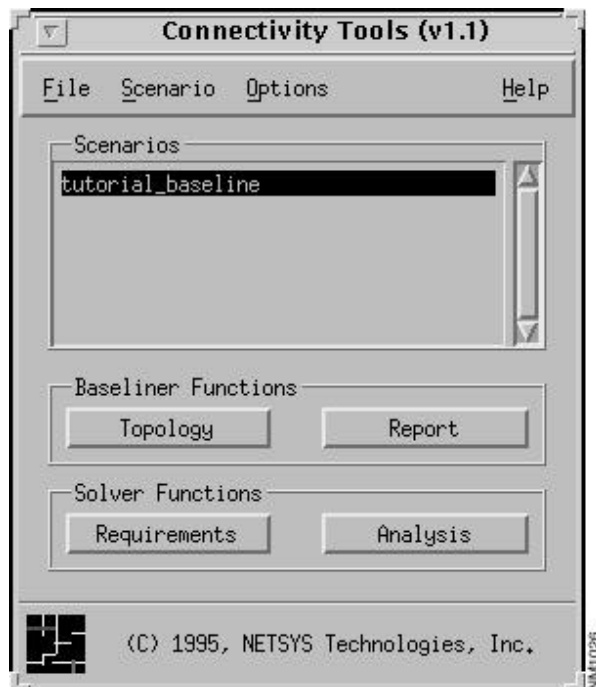


Figure 12-1 Connectivity Tools Window (Solver): Baseline Scenario Created

Step 1 Choose the **Scenario>Create New** menu option from the Connectivity Tools window.

Step 2 Open the Router Configuration window for the **netsys5** router, by either double-clicking on the **netsys5** router icon in the Topology window, or by selecting the **netsys5** entry in the **Results** list in the Find Device window and then clicking on the **Parameters** button.

In Step 3 through Step 15, several configuration changes will be made to the router **netsys5**. In the course of modeling an enterprise network using the Connectivity Tools, similar configuration changes may be made to the model which you may eventually want to implement in your live network. The Connectivity Tools Configuration Changes feature provide several ways to accomplish this.

Step 3 Click on the **IP Static Routes** button in the **netsys5** Router Configuration window.

Step 4 Delete the **199.35.112.0** static route entry in the IP Static Routes window, then click on the **Apply** button.

The modification is now in effect for the **netsys5** router configuration.

Step 5 Select the **Context>Router** option to return to the **netsys5** Router Configuration window.

Step 6 Click on the **IP View Algorithms** button.

The IP Routing Algorithms window is displayed.

Step 7 Click on the **Add** button.

The Edit IP Routing Algorithms List window is displayed.

- Step 8** Select the **rip** algorithm entry then click on the **OK** button.

The RIP algorithm is added to the **Algorithms** list in the IP Routing Algorithms window.

- Step 9** Click on the **Apply** button in the IP Routing Algorithms window.

- Step 10** Select the **rip** entry in the **Algorithms** list then click the **View IP Routing Algorithm** button.

The RIP Algorithm window is displayed.

- Step 11** Click on the **Add** button in the Networks pane.

The Edit Network List window is displayed.

- Step 12** Select the **199.35.30.0** entry from the Network Addresses pane, then click on the **OK** button.

The **199.35.30.0** network address is added to the **Networks** list in the RIP Algorithm window.

- Step 13** Click on the **Add** button in the Networks pane.

The Edit Network List window is displayed again.

- Step 14** Select the **199.35.110.0** entry from the Network Addresses pane, then click on the **OK** button.

The **199.35.110.0** network address is added to the **Networks** list in the RIP Algorithm window.

- Step 15** Click on the **Apply** button in the IP Routing Algorithms window.

The two network addresses are now in effect for the **netsys5** router configuration.

- Step 16** Select the **Scenario>Configuration Changes** menu option from the Connectivity Tools window.

The Configuration Changes window, shown in Figure 12-2, is displayed. Notice the Modified this Session pane contains an entry for the **netsys5** router.

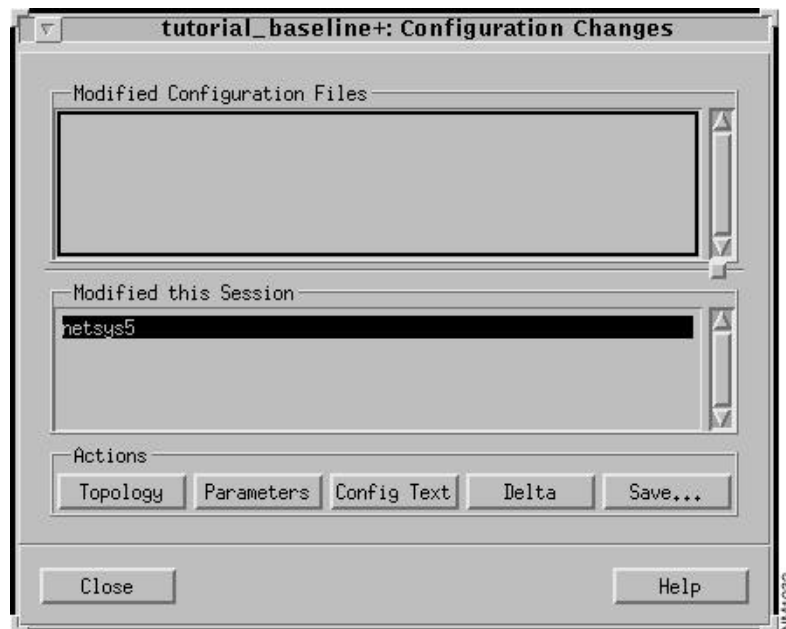


Figure 12-2 Configuration Changes Window

Step 17 Click on the **Config Text** button.

The Configuration Text window is displayed. The router's configuration text file is displayed in this window. The configuration text file is a version of the router's configuration file as it is currently understood by the Connectivity Solver program, including any router attribute modifications you have made in a scenario. The purpose of this file is to more easily allow you to track the changes made to routers during "what-if" analysis.

Note The router configuration information displayed in this text file is not a usable configuration file for actual implementation in a router. It is a subset of the actual router configuration, as only those configuration commands that were parsed to build the baseline are included. It also does not include **no** commands.

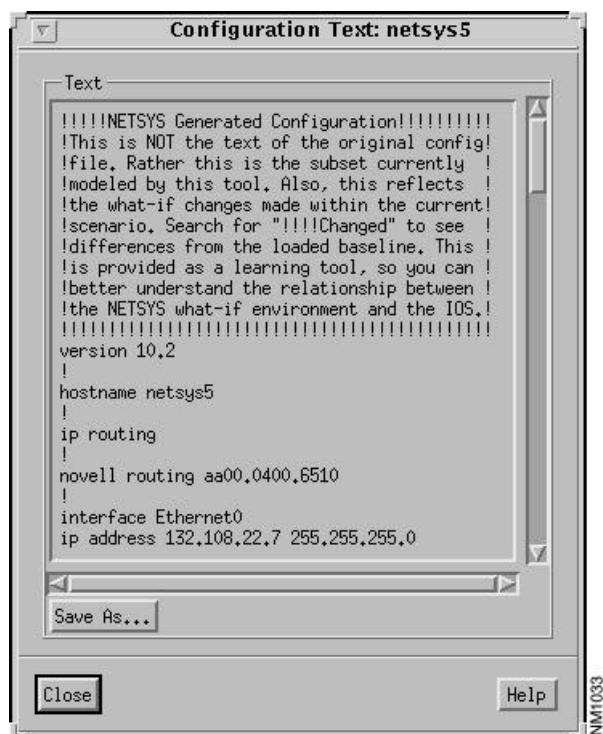


Figure 12-3 Configuration Text Window: netsys5 Router

Step 18 Click on the **Save As** button to save the configuration text to a file.

Step 19 Click on the **Delta** button in the Configuration Changes window.

The Configuration Delta-Baseline window is displayed. Scroll through the text in the Configuration Delta window. This window generates the actual IOS router commands associated with the router modifications made earlier, including **no** commands to disable options that were previously enabled on a router.

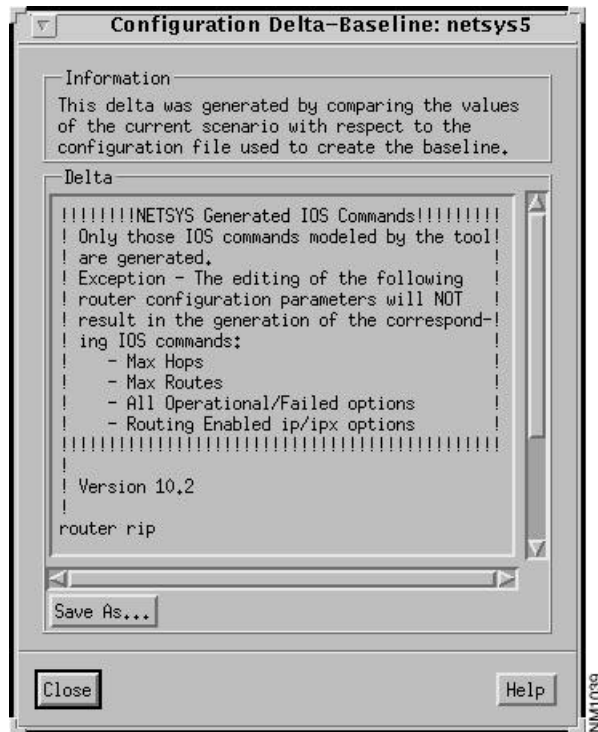


Figure 12-4 Configuration Delta Window

Step 20 Click on the **Save As** button to save the IOS delta commands to a file.

The contents of this file can be appended to the router's configuration file thereby assuring the modifications you made during your "what-if" analysis can be used in your actual network if you desire.