

2. View complex routing hierarchies by abstracting or drilling down

Route Explorer can discover, display and monitor the largest network topologies. The following figure shows a large multi-area OSPF network. While the core of the network is complex, it can be viewed in detail by zooming in, as seen in Figure 2.

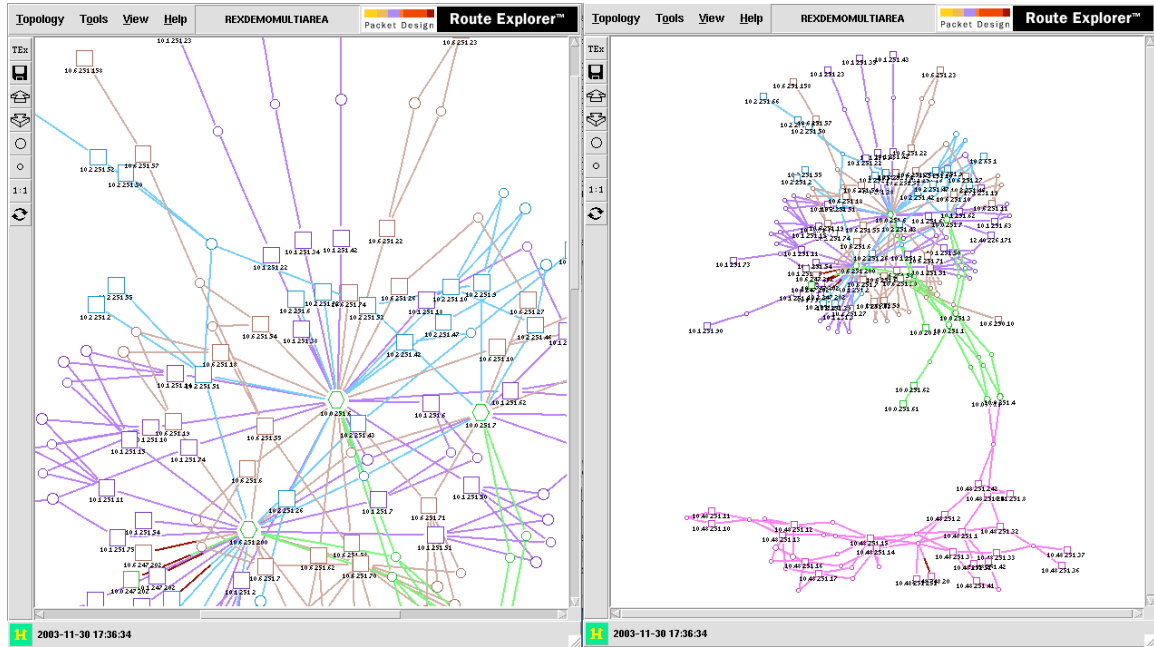


Figure 2

For clarity of viewing, each individual area can also be selected and opened in a separate topology map window, as seen in Figure 3.

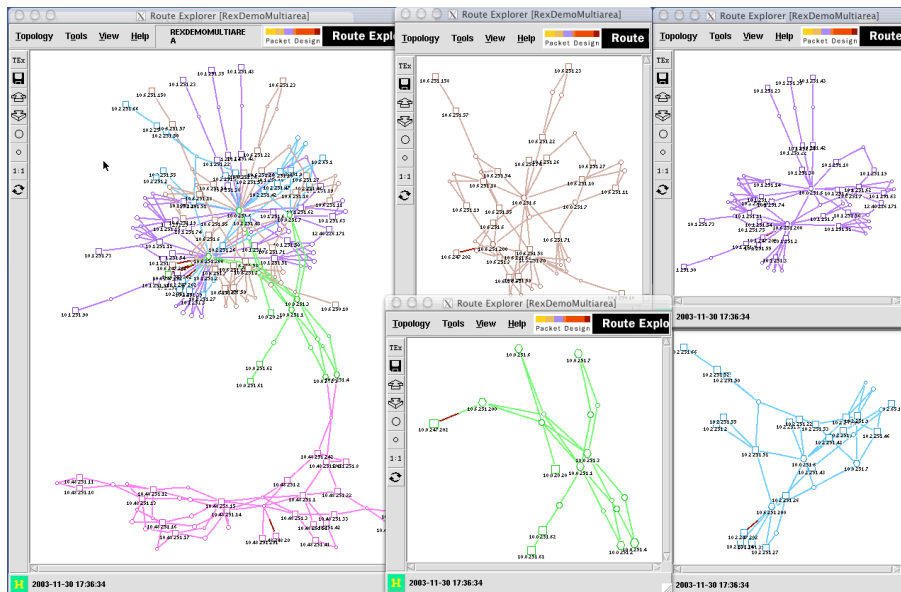


Figure 3

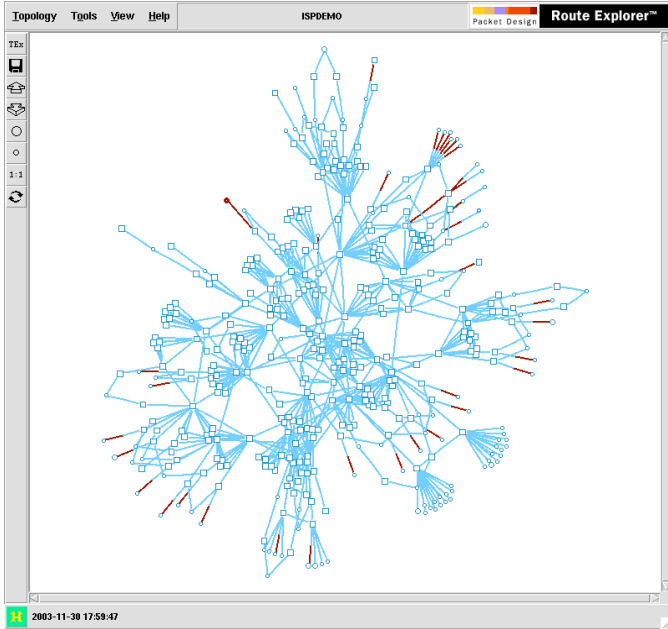


Figure 4

Figure 4 shows a complex service provider network. This network has a hierarchy of routers with a backbone, customer edge, data center and peering border routers.

Route Explorer can simplify this complex network for easy viewing. The two examples in Figure 5 show the same network topology, but simplified. At left in the figure, Route Explorer has hidden the leaf node networks. If you use naming conventions for your routers, Route Explorer can further simplify the network display based on the router's names. The second view (at right in Figure 5) shows only the "backbone" routers.

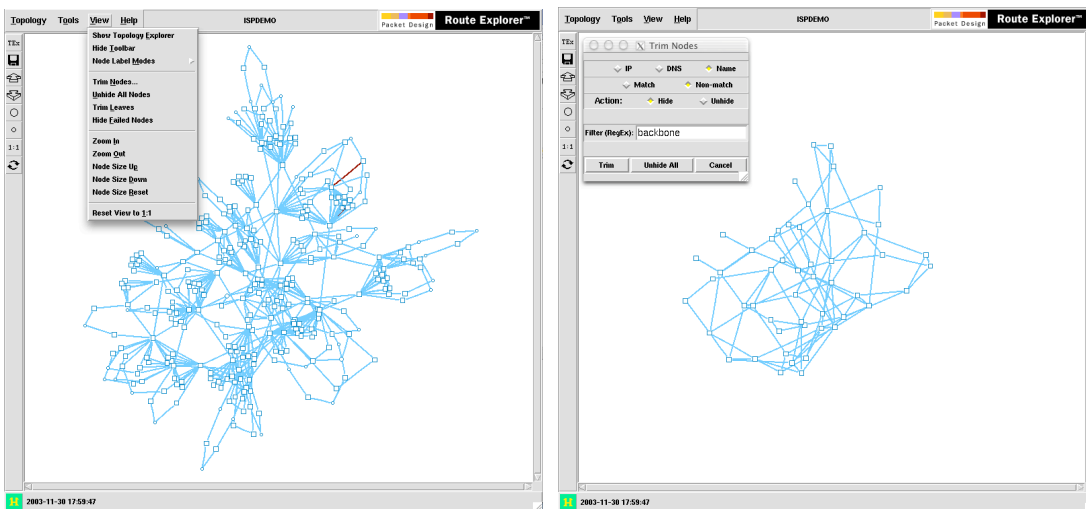


Figure 5

HOW TO:

Zoom in to the topology map:

1. Open the topology “DemoEnterpriseAMar03”.
2. Click on Zoom In button on the side bar menu
3. or select an area on the map to zoom by clicking and dragging a rectangle
4. Right click in the rectangle to show pop-up menu
5. click on Zoom.

Open IGP areas and ASes in separate toology maps:

1. Display Topology Explorer pane – click on “TEx” button in the sidebar
2. select the area or AS to open in a separate window (e.g. “Backbone”) by clicking on it in the hierarchical topology list in the TEx pane, and make sure it is highlighted
3. click on “New View” button in TEx pane

Hide nodes:

1. Open the topology “DemoTier1ISPJun02”.
2. Select View->Trim Nodes
3. In the resulting dialog, select “name” button in the top row
4. Select “Non-match” button in the next row
5. Enter the filter regular expression: “backbone”
6. Click on “Trim” button