

Frame Relay Budget Proposal

Objective

Describe Frame Relay operation.

Scenario

It has been decided that your company will use Frame Relay technology to provide video connectivity between your main office location and two branch offices. The company will also use the new network for redundancy in case their current ISP network connectivity is interrupted for any reason.

As usual, with any kind of network upgrade, you must develop a cost proposal for your administrator.

After doing some research, you decide to use this [Frame Relay](#) web site for your cost analysis. Costs listed on the site are representative of real ISP costs – they are referenced only to help you create your cost analysis design.

For more detailed instructions, open the PDF accompanying this activity.

Resources

- Packet Tracer software
- Word processing or spreadsheet calculating software

Directions

Step 1: Use Packet Tracer to show your home office and two branch offices.

- Use the Note tool to name the required three routers.
- Include a Frame Relay router to show where connectivity will be placed on the ISP cloud.
- Include the ISP cloud in the topology so that the administrators can visualize where the new Frame Relay service will connect to your Frame Relay device or router.

Step 2: Decide how many DLCI connections you need from your home office to your branch offices.

- Determine whether to use 1.544 T1 lines for all your DLCI circuits or combination bandwidth connections of varying bandwidths.
- Be able to justify your decisions made in Step 2a.

Step 3: Create a Frame Relay cost proposal matrix. Include approximate cost pricing found on the [Frame Relay](#) web site. Include in your matrix:

- Access costs to the ISP
 - Service area tariffs
 - Interstate area tariffs
- Cost of the Frame Relay ports
- DLCI costs

Step 4: Present the cost analysis to solicit comments and approval from the company administrators.