



Remote Ethernet Bridging & Routing Using Frame Relay

Connecting remote office LANs to the central-site network has become one of today's biggest challenges for network administrators. This Ethernet branch connectivity solution economically accommodates different sized LANs to create one seamless, efficient, enterprise WAN using one of the newer WAN service options available, Frame Relay. Frame Relay is a packet-switching service provided by telephone service carriers. When you use it, you still use DDS or T1 links and CSU/DSUs.

However, instead of leasing a dedicated line all the way from your main office to each remote office, you only need to lease a line from each office to its local Frame Relay provider's office. For companies whose networks encompass multiple offices over a wide geographic area, Frame Relay can be an economical alternative to regular leased lines. When you arrange for Frame Relay service, you select an access line (56 Kbps or 1.536 Mbps) and permanent virtual circuit (PVC) for each site to be connected and a committed information rate (CIR) for each PVC. Typically ranging from 56 Kbps to full T1, the CIR is the bandwidth guaranteed to be available to each PVC. You can exceed CIR up to your full link speed at any time, provided the bandwidth is available on the carrier's Frame Relay network.

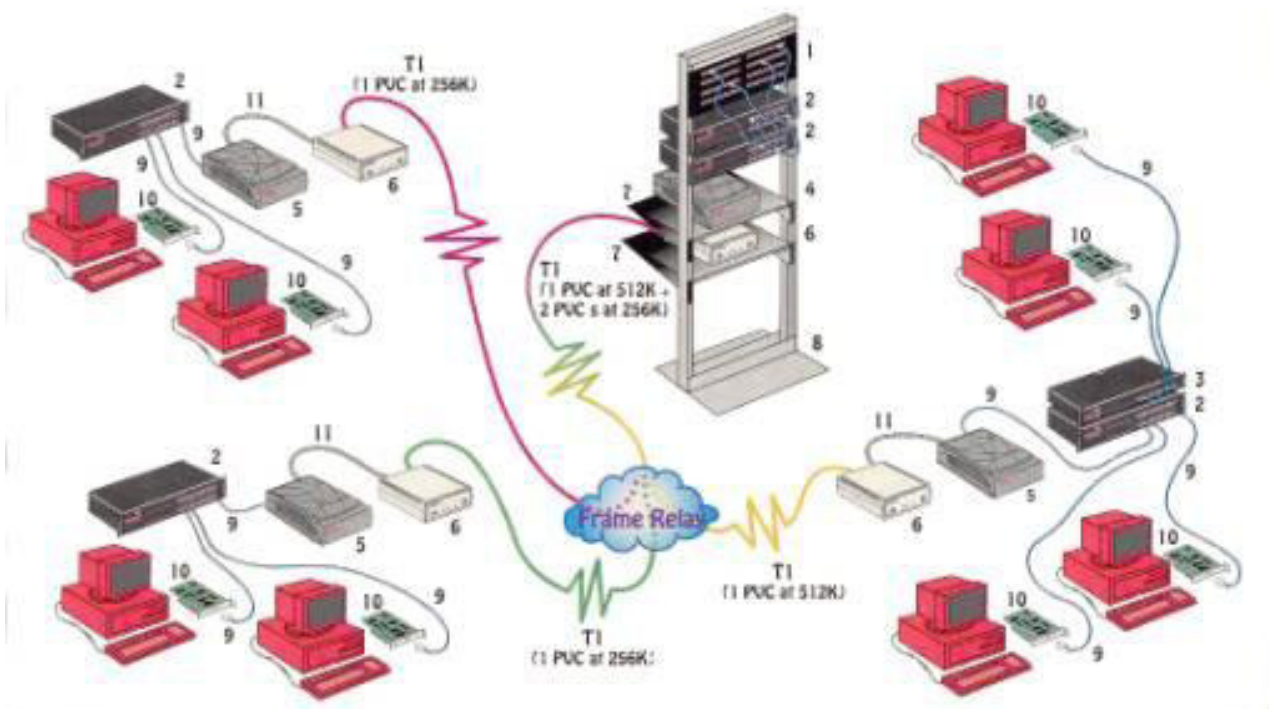
In this solution, the main network has a Frame Relay bridge/router capable of supporting two full T1 WAN links, up to 15 PVCs and a CIR per-PVC of up to 1.544 Mbps. It's shown here using one T1 link with three PVCs (one for each remote office). The Frame Relay bridge/router at each remote office supports a single T1 WAN link, one PVC and a CIR of up to 512 Kbps. The larger branch office at right is using the bridge/router's full capacity, while the two smaller offices at left are running at a CIR of 256 Kbps each. All of the bridge/routers used in this solution route TCP/IP and Novell IPX/SPX traffic and bridge all other protocols. They also offer data compression, which can increase throughput up to 600%, depending on type of data.

- » Perfect for connecting multiple remote branch offices to the central-site network
- » Uses Frame Relay service over T1 links for speed and economy
- » Routes IP and IPX traffic and bridges all other protocols



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- » Routed and bridged traffic shared the same WAN links
- » Data compression can increase throughput by up to 600%



Products:

1. Cat. 5 Patch Panel
2. 24 Port Stackable 10 BASE T Hub
3. 12 Port Stackable 10 BASE T Hub
4. Frame Relay Remote Ethernet Bridge/Router, 15 PVCs
5. Frame Relay Remote Ethernet Bridge/Router, 1 PVC
6. T1 CSU/DSU
7. Rack mount Shelf
8. 86.5" Steel Rack
9. Cat. 5 Patch Cable Assembly, T568B
10. 10 BASE T Card
11. DB-25 M to 34-Pin MV.35 Cable Assembly