
SECTION 3 - SERVICES IN BELL ATLANTIC-PENNSYLVANIA

3.1 Reserved for Future Use

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by:

Director - Tariffs
Verizon Select Services Inc.
6665 North MacArthur Boulevard, 2nd Floor
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SECTION 3 - SERVICES IN BELL ATLANTIC-PENNSYLVANIA (Continued)**3.7 Frame Relay Service****3.7.1 Description of Service**

Frame Relay Service is a high-performance, cost effective data offering for connectivity of multiple Local Area Networks (LANs) or Systems Network Architecture (SNA) locations. Frame Relay Service uses shared facilities and statistical multiplexing to transport data communications (packets). Frame Relay Service delivers bandwidth-on-demand internetworking connections, providing speeds up to 1.536 Mbps. It is ideal for intensive, bursty data transmission applications.

Dedicated access facilities provide access to the frame relay network through ports on a frame relay switch. Connectivity to the frame relay network is provided through Permanent Virtual Circuits (PVCs) which provide logical software connections for communications between ports on the network. Multiple PVCs can be defined on any given port providing a single access line with the capability to transmit data to multiple destinations.

3.7.2 Rate Elements

There are three primary components to Frame Relay Service:

- Local Access Facility (dedicated)
- Port
- Data Link Connection Identifier (DLCI) and Committed Information Rate (CIR)

Customer may purchase service as a combined local access and port element, plus the DLCI element from Carrier. When Customer's serving wire center is not frame relay capable, Customer must also purchase facilities from Carrier separately.

- A. Local Access Facility - Customers may access the frame relay network at speeds of 56/64 Kbps (DS0) or 1.536 Mbps (DS-1) digital facilities.
- B. Port - The frame relay port provides the physical connection between the local access facility and the frame relay network. The port also provides the logical termination of the PVCs assigned to the port. The port speed provides the maximum (burst) speed for which Customer is capable of sending or receiving information through an individual port. Customers select a speed for each frame relay port, either 56/64 Kbps or 1.536 Mbps. The sum of the individual PVCs speed can not exceed the port speed. The port speed must be large enough to accommodate the cumulative egress of all PVCs connected to the port.

SECTION 3 - SERVICES IN BELL ATLANTIC-PENNSYLVANIA (Continued)**3.7 Frame Relay Service (Continued)****3.7.2 Rate Elements (Continued)**

- C. Data Link Connection Identifier (DLCI) and Committed Information Rate (CIR) - The DLCI is one of two address points required to establish a PVC. The PVC provides the logical dedicated communications path (circuit) between two ports. PVCs are predefined for each pair of end point devices so a virtual network path (circuit) is always available without call set-up delay. This results in faster access to the network, better response time for end user applications, and a high degree of network security. A CIR is assigned to each PVC. The CIR defines the average minimum data transmission rate the network will allocate to the PVC under normal operating conditions. The data transmission rate for a PVC can exceed the CIR when excess capacity is available on the port and on the network. When excess capacity exists, an average data rate above the CIR may be achieved up to the port capacity. Data sent across a virtual connection in excess of the connection's CIR will be marked by the network as being discard eligible in the event of network congestion, and will be delivered only if the instantaneous demand for the output on the transmission channel is equal to or less than the capacity of the queue for that channel.

These are the valid CIR values for the respective speeds:

<u>Speed</u>	<u>CIR-valid Kbps</u>
56 Kbps	8, 16, 28, 32
384Kbps	8, 16, 28, 32, 56/64, 128, 192
DS-1	8, 16, 28, 32, 56/64, 128, 192, 256, 384, 512, 768

3.7.3 Additional Terms and Conditions of Service

Frame Relay Service is provided where facilities and operating conditions permit and where technically feasible.

Customer must give Carrier 30 days prior written notice to terminate Frame Relay Service.

SECTION 3 - SERVICES IN BELL ATLANTIC-PENNSYLVANIA (Continued)**3.7 Frame Relay Service (Continued)****3.7.3 Additional Terms and Conditions of Service (Continued)**

If Customer requires special construction to enable a Frame Relay Service request, the special construction charges will be passed to Customer.

3.7.4 Rates and Charges**A. Port and Access**

Charges include a NRC and a MRC, based on the speed of the port connection. Charges are per access facility, and include the local access, port charges, and one CIR-based PVC. NRC is waived for three and five year term contracts.

	<u>NRC</u>	<u>Month-to- Month MRC</u>	<u>1 Year MRC</u>	<u>3 Year MRC</u>	<u>5 Year MRC</u>
56/64 Kbps	\$775.00	\$169.00	N/A	\$155.00	\$145.00
384Kbps	970.00	356.00	N/A	326.00	315.00
DS-1	970.00	422.00	N/A	388.00	368.00

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3.7 Frame Relay Service (Continued)

3.7.4 Rates and Charges (Continued)

B. PVC (Permanent Virtual Circuit)

Based on the number of PVCs selected, and the CIR for that PVC, the CIR MRC will be calculated for each PVC. PVCs added to the network after initial installation will be considered new elements and the non-recurring and monthly charges will apply.

	<u>NRC</u>	<u>MRC</u>
<u>Additional PVC</u>	\$5.00	\$1.50
<u>CIR - per PVC</u>		
	<u>NRC</u>	<u>MRC</u>
56 Kbps		
8, 16, 28, 32, Kbps	N/A	\$5.00
DS-1		
56/64 Kbps	N/A	\$2.00
128 Kbps	N/A	4.00
192 Kbps	N/A	7.00
256 Kbps	N/A	9.00
384 Kbps	N/A	12.00
512 Kbps	N/A	25.00
768 Kbps	N/A	28.00

C. Miscellaneous Charges

	<u>NRC</u>
Subsequent Activity Charge - per order	\$50.00
Expedite Charges	75.00
Initial Order Charge	100.00
Cancellation Charge - per port	50.00

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