

8. ADVANCED COMMUNICATIONS SERVICE OFFERINGS

A. General

1. Advanced Communications Services is a telecommunication service designed for cost-efficient data transmission.
2. All services are provisioned in conjunction with the corresponding interstate service, and intrastate service is not available separately from the corresponding interstate service.
3. All of these services are governed by the terms, conditions, discounts and provisions specified in the applicable Service Agreements, the Qwest Rates and Services Schedule and this Rate Schedule No. 1.
4. Advanced Communications Services require that a customer sign a term commitment.

B. Types of Contractual Agreements Offered

- Qwest Total Advantage (QTA) – A suite of services targeted to large businesses.
- Qwest Total Advantage Express (QTA Express) – A mid-market product whose target market requires only long distance service.
- Qwest Connect – A suite of services targeted to businesses billing a minimum of \$5,000 to \$15,000 a month.
- Qwest Express – Offers a suite of telecommunication services to non-telecommunications carrier customers operating within the wholesale market with special rates on an individual contract basis, which is available on a one, two, or three-year term commitment.
- Qwest Loyal Advantage (QLA) – A suite of services targeted to government entities.
- MiCTA – A suite of services targeted to government entities.

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C. Frame Relay Service (FRS)

1. General Description

- a. Frame Relay Service (FRS) is a public, fast-packet data network service that employs a form of packet switching analogous to a streamlined version of X.25 networks. The packets are in the form of “frames”, which are variable in length, with the payload being anywhere between 0 and 4,096 octets. Frame Relay Service supports a variety of simultaneous data applications over a single integrated facility such as data, voice, and video. Transmission of frames between the user sites is on the basis of Permanent Virtual Circuits (PVCs) which are predetermined paths specifically defined in the Frame Relay routing logic. The following Usage Parameters for traffic control and congestion control apply to particular virtual circuits on Frame Relay Service:
 - **Committed Burst Size:** The maximum data rate that the Company agrees to handle over a subscriber link under normal network operation conditions.
 - **Excess Burst Size:** The maximum data rate that the Company’s network will attempt to transport over a specified period of time, known as the Measurement Interval. At the Company’s discretion, the Company may mark the excess frames as Discard Eligible (DE).
- b. Virtual Circuits (VCs) are two-way, software-defined data paths between two ports that act as replacements for private or dedicated leased lines in the customer’s network. Frame Relay Service supports routing on a pre-established connection or PVC.
- c. Port connection provides a gateway into the Qwest Frame Relay network and allocates the network’s available capacity to the virtual connections it supports.

2. Rates and Charges

Pricing will be developed on an individual case basis.

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D. ATM Service

1. General Description

- a. ATM Service is a high-speed, connection oriented multiplexing and switching service that uses fixed-length cells to support transmission of multiple types of traffic (such as data, voice and video) over a Local Area Network (LAN) or Wide Area Network (WAN).
- b. ATM Service allows for a fixed-length 53-byte cell, which consists of 48 byte payload and 5-byte header, to transport user data across the network. Switching is done based on the contents of the cell header.
- c. The Qwest ATM Port Connection provides a gateway into the Qwest ATM Network and allocates the network's available capacity to the Virtual Connections it supports. At least one Port must exist for each customer premises directly connected to the Qwest ATM Network.
- d. Virtual Circuits (VCs) are two-way, software-defined data paths between two Ports that act as replacements for private or dedicated leased lines in the customer's network. ATM Service supports cell routing on a pre-established connection or Permanent Virtual Circuit (PVC), or connection on demand basis or Switched Virtual Circuit (SVC). The customer at or prior to connection set up must designate a service category.

2. Rates and Charges

Pricing will be developed on an individual case basis.

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E. Metro Optical Ethernet (MOE)

1. General Description

Metro Optical Ethernet (MOE) Service is a flexible, easy-to-use, transport service that uses established Ethernet transport technology. MOE allows customers to connect multiple enterprise locations within a service area using native Ethernet protocol. MOE supports transmission speeds as low as 5 Mbps and up to 1 Gbps. The minimum term is one year.

2. Rates and Charges

Pricing will be developed on an individual case basis.

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F. QWave

1. General Description

QWave Service is a wavelength (Lambda) solution that addresses a range of dense wave division multiplexing (DWDM) transport applications including Metro and Inter-City applications. QWave offers 2.5G (OC48), 10G (OC192), 1GbE and 10GbE LAN PHY unprotected and Protected wavelength services for customers who need high capacity transport and want greater control and visibility of their broadband services. QWave supports synchronous optical network (SONET) and synchronous digital hierarchy (SDH) protocols.

2. Rates and Charges

Pricing will be developed on an individual case basis.