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7. Special Access Service

7.1 General

Special Access and Private Line Service provides the physical pathway for electromagnetic transmission of information between a dedicated originating point and a dedicated terminating point. Special Access and Private Line Service are generally provided as Links, Channel Connections, Dedicated Transport, and Optional Features. The Links, Channel Connections, and Dedicated Transport are provided for a variety of grades of service, what Optional Features are available depends upon the grade of service selected.

7.2 Links

Links are the physical facilities from the network interface on a customer's premises to a point of interconnection on the main distribution frame at a Telephone Company location. They are grouped to distinguish between analog and digital, and are also classified according to bandwidth. The Telephone Company offers Special Access Links in the following grades of service:

2 Wire Analog Private Line
4 Wire Analog Private Line
Low Speed Digital Private Line
DS1 (1.544 Mbps)
DS3 (45 Mbps)

The rates for links depend only on the transmission or functional characteristics of the unbundled link facilities, and not on the type of service or facility to which the link is connected. Rates for Special Access Links, which are expressed per route ¼ mile of facilities between the customer's premises and the main distribution frame at the Telephone Company location maybe found in Section 17.5.1, following. (T) (T)

7.3 Channel Connections

The channel connection is a non-switched connection between two links or between a link and a dedicated interoffice transport circuit or multiplexer. The channel connection consists of the cross connection of a Special Access link to another link, a multiplexer, or a dedicated channel to another end office or tandem. All such facilities must be located on or near the same main distribution frame. The Telephone Company offers Special Access Channel Connection in the following grades of service:

2 Wire Analog Private Line
4 Wire Analog Private Line
Low Speed Digital Private Line
DS1 (1.544 Mbps)
DS3 (45 Mbps)

Rates for Special Access Channel Connections may be found in Section 17.5.3, following.

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7. Special Access Service (Cont'd)

7.4 Dedicated Transport

Dedicated Transport is a non-switched connection between two Telephone Company central offices. The two ends of a Dedicated Transport may be connected to any combination of Links (as described in Section 7.2 above), multiplexers (as described in Section 7.5. below), Expanded Interconnection cross-connects (as described in Section 15 below), or Telephone Company ports for Switched Access or local service, provided only that the connection is with a service of appropriate bandwidth and compatible interfaces.

Dedicated Transport generally consists of two rate elements. Channel Mileage Termination is designed to recover the non-mileage sensitive costs of providing the Dedicated Transport service, and is applied per Dedicated Transport connection. Channel Mileage Facility is designed to recover the mileage sensitive costs of providing the Dedicated Transport service, and is applied per quarter mile of the Dedicated Transport connection. For purposes of Channel Mileage Facility, quarter miles will be the airline distance between the two Telephone Company offices computed using the V&H coordinate system and coordinates set forth in the National Exchange Carrier Association Tariff F.C.C. No. 4. (C)

The Telephone Company offers Special Access Dedicated Transport in the following grades of service:

2 Wire Analog Private Line
4 Wire Analog Private Line
Low Speed Digital Private Line
DS1 (1.544 Mbps)
DS3 (45 Mbps)

Rates for Special Access Dedicated Transport may be found in Section 17.5.4, following.

7.5 Features

Features are added to Special Access circuits at the customer's option to enhance the functionality of the service. The Telephone Company currently offers three types of features for Special Access Service: conditioning, bridging, and multiplexing.

Conditioning provides transmission characteristics for a voice grade private line which exceed standard engineering practices. A conditioning charge is applied at each link of a circuit for which the conditioning is ordered. The transmission characteristics provided by the various types of conditioning are as follows:

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7. Special Access Service (Cont'd)

7.5 Features (Cont'd)

Type C1
- The envelope delay distortion shall not exceed:
  between 1,000 and 2,400 Hertz, a maximum difference of 1,000 mcs.
- The loss deviation with frequency (from 1,000 Hertz reference) shall not exceed:
  between 1,000 and 2,400 Hertz, -1db to +3db
  between 300 and 2,700 Hertz, -2db to +6db

(+ means more loss)
For each terminal

Type C2
- The envelope delay distortion shall not exceed:
  between 1,000 and 2,600 Hertz, a maximum difference of 500 mcs.
  between 600 and 2,600 Hertz, a maximum difference of 1,500 mcs.
  between 500 and 2,800 Hertz, a maximum difference of 3,000 mcs.
- The loss deviation with frequency (from 1,000 Hertz reference) shall not exceed:
  between 500 and 2,800 Hertz, -1db to +3db
  between 300 and 3,000 Hertz, -2db to +6db

(+ means more loss)
For each terminal

Type C4
- The envelope delay distortion shall not exceed:
  between 1,000 and 2,600 Hertz, a maximum difference of 300 mcs.
  between 800 and 2,800 Hertz, a maximum difference of 500 mcs.
  between 600 and 3,000 Hertz, a maximum difference of 1,500 mcs.
  between 500 and 3,000 Hertz, a maximum difference of 3,000 mcs.
- The loss deviation with frequency (from 1,000 Hertz reference) shall not exceed:
  between 500 and 3,000 Hertz, -2db to +6db

(+ means more loss)
For each terminal

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7. Special Access Service (Cont'd)

7.5 Features (Cont'd)

Bridging is furnished in the central office to provide multi-point voice grade Special Access service. Each bridging arrangement has a capacity to connect up to six Links and/or segments of Dedicated Transport.

Multiplexers convert one higher capacity service to multiple lower capacity services. For example, multiplexing from DS3 to DS1 can convert a DS3 service into as many as 28 DS1 services.

Bridging and multiplexing functions are performed at Telephone Company offices designated as Facility Hubs. Different locations may be designated as Hubs for different capacities. Specific Hub location information is incorporated in National Exchange Carrier Association Tariff F.C.C. No. 4.

(N)

Secondary Channel Capability (SCC) is a diagnostic channel comprised of previously unavailable bits out of the existing data stream. This allows for control and testing of the network. The SCC is independent of the primary data path and operates at a substantially lower bit rate. Special customer equipment is necessary to utilize the benefits of the SCC. Customers not wishing to utilize the capability will not be impacted. Due to the transmission equipment restrictions, SCC cannot be provided on 56.0 kbps circuits that require the installation of loop repeater equipment for provision of service.

(N)

Rates for Special Access Features may be found in Section 17.5.5, following.

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7.6 Optional Features & Functions

(A) Minimum Term Discount Plans

Minimum Term Discount Plans ("TDP") offer reduced service rates to customers who commit to purchase DS1 and/or DS3 service for a specified period of time.

A customer may convert an existing TDP service to a longer period TDP service. Upon converting an existing plan to a longer term plan, the customer's existing applicable contract obligation will be deemed satisfied and a new term plan will be initiated. No service credit will apply towards the new plan; the new TDP service customer with a DS1 or DS3 service purchased under a month to month agreement may convert that service to a term discount plan. (N) (N)

A customer who discontinues a service under a TDP prior to the end of the term may, without penalty, transfer the remaining months of the term commitment to either an existing or new like service which has been installed within 90 days prior to disconnection of the service under the original TDP. The new service must connect the customer and the end user entirely over Rochester's facilities.

(M)

(M)

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7. Special Access Service (Cont'd)

7.6 Optional Features & Functions (Cont'd)

(A) Minimum Term Discount Plans (Cont'd)

If the Customer is transferring the remaining months of the TDP to a new service all standard nonrecurring charges for the new service still apply. The Telephone Company may at its option, charge an extra installation or monthly charge, or both, if special construction maintenance or expense is required to install or otherwise provide the service requested. When construction charges apply, the customer may be asked to prepay them as well.

The Customer may (at the Telephone company's option) have to pay more for work done after regular working hours if the request was made by the customer.

Following completion of a TDP commitment, customers have the following options:

a) Initiate a new TDP commitment under which to bill the service; or

b) Continue to keep the service under the applicable charges for a current TDP service. Convert to month to month service or (N)

c) Terminate Service.

d) If the customer fails to make a choice by the end of the term, the service will be converted to month-to-month (effective 5/15/2009). (N)

The customers must commit to keep a service for the life of the plan. Discontinuance of a TDP service, including the rate stability provision, without termination penalty is only permitted for a customer converting to a longer term plan, as specified in this section. Penalty for early discontinuance of TDP services is described in Section 7.6.(C), following.

(B) Rate Stability Provision

A rate stability provision applies to any service purchased under a minimum term discount plan. Should TDP rates increase during the term of any given plan, the Company will continue to provide those services at the then applicable rate of the plan for the lessor of either the remaining life of the term plan or one year, subject to Commission approval. Following termination of the stability period, effective tariffed rates will apply.

7. Special Access Service (Cont'd)

7.6 Optimal Features & Functions (Cont'd)

(C) Discontinuance of Minimum Term Discount Plans

Customers purchasing Minimum Term Discount Plans commit to keep a service for the duration of the chosen plan period. If a customer chooses to discontinue the service prior to the duration of a chosen plan period, that customer is liable for a termination charge. The amount of the termination charge is equal to any or all charges that would have been incurred by the customer for the unused portion of the contracted TDP had the full term of the TDP been honored.

(D) Route Diversity with Automatic Protection

1) Route Diversity with Automatic Protection Switching (Alternate Entrance).

In order to provide this option a separate entrance facility must be made available to the Telephone Company.

Route Diversity with Automatic Protection Switching (Alternate Entrance) provides added reliability to Optical 45 Mbps Service. This feature provides a separate facility path for the protection system between the serving central office and the Telephone Company Point of Termination located in the same building as the customer designated premises.

This added protection is provided by ensuring that backup electronics and two physically separate facility paths are used in the provisioning of the service. A primary (or working) service path is established between the serving central office and the customer designed premises. A secondary (or protect path) is provisioned between the customer designated premises and the serving central office via a Telephone Company designated alternate route. Should the working path or electronics fail, or the service performance becomes impaired, i.e., the bit error rate degenerates to less than or equal to 10 to the minus 6, Optical 45 Mbps Service will automatically switch to the service protect path in order to maintain a near continuous flow of information between locations. This option is only available where facilities permit.

(E) Clear Channel (M)

This service option will be available only between locations which are equipped for sending and receiving signals with B8ZS coding/decoding capabilities.

Customer provided equipment must be capable of transmitting and decoding B8ZS signals as described in ANSI T1. 102.

Customers must agree to out-of-service periods required to add this feature to an existing circuit. No credit allowance will be made for the periods of interruption. (M)

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7. Special Access Service (Cont'd)

7.6 Optimal Features & Functions (Cont'd)

(D) Route Diversity with Automatic Protection

(N)

2) Route Diversity with Automatic Protection Switching (Same Entrance)

Route Diversity with Automatic Protection Switching (Same Entrance) provides added reliability to Optical 45 Mbps Service. This feature provides a separate facility path for the protection system between the serving central office and the node splice on the Telephone Company's fiber ring. This option does not provide for protection between the node splice point on the Telephone Company's ring and the Telephone Company Point of Termination.

This added protection is provided by ensuring that backup electronics and two physically separate facility paths are used in the provisioning of the service from the node splice point to the serving central office. A primary (or working) service path is established between the serving central office and the customer designated premises. A secondary (or protect path) is provisioned between the node splice point and the serving central office via a Telephone Company designated alternate route.

Should the working path or electronics fail, or the service performance becomes impaired, i.e., the bit error rate degenerates to less than or equal to 10 to the minus 6, between the node splice point and the serving central office the Optical 45 Mbps Service will automatically switch to the service protect path in order to maintain a near continuous flow of information between locations.

(N)

This option in only available where facilities permit.