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**SPECIAL ACCESS SERVICE**

**7.1 Service Provisioning (Cont'd)**

**7.1.1 Types of Service Configurations (Cont'd)**

**(C) Multiplexed Service (Cont'd)**

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(D)

(6) High Capacity (DS1) to Voice Grade

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade services. A channel of this DS1 to the hub can also be used for Digital Link, Program Audio, Metallic service or WATS Access Lines.

(7) High Capacity (DS1) to DSO

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels using digital time division multiplexing.

(8) High Capacity DSO to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps, or five 9.6 kbps channels using digital time division multiplexing.

**(D) WATS Access Line Service**

WATS Access Line Service connects a customer designated premises with the WATS serving office and is provided solely in conjunction with Switched Access Service, Feature Groups D, as set forth in Section 6.

- Except as specified in Footnote {2} WATS Access Lines may not be used for the completion of Local Exchange Service calls. {1}

The following diagram depicts a WATS Access Line Service connecting a customer designated premises to a WATS serving office. The applicable rate elements are:

- Channel Termination (1 applicable)
- Channel Mileage

**SPECIAL ACCESS SERVICE**

**7.1 Service Provisioning** (Cont'd)

**7.1.3 Hubs**

**(A) General**

A hub is a SWBT designated serving wire center at which bridging, multiplexing or Network Reconfiguration Service functions are performed.

- The bridging functions performed may be (1) to connect three or more customer designated premises in a multipoint arrangement, or (2) to reterminate Network Reconfiguration Service or Transport Resource Management Service as set forth in Section 18 (Network Management Service).
- The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from digital to voice frequency channels.

End to end services may be provided on channels of these facilities to a hub. The transmission performance for the end to end service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

Cascading multiplexing occurs when a High Capacity digital (D) channel is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a Supergroup facility is de-multiplexed to five Group facilities and then one of the Group facilities is further de-multiplexed to individual Voice Grade channels.

The Network Reconfiguration Service and Transport Resource Management Service offerings allow the customer to reconfigure their Special Access Services.

**(B) Types of Hubs**

There are two types of bridging hubs and three types of multiplexing hubs. Bridging hubs are either intermediate or terminus. Multiplexing hubs are intermediate, super intermediate or terminus. The definitions for these hubs are as follows:

**(1) Intermediate Bridging Hub**

An intermediate bridging hub provides for the connection of three or more customer designated premises to form a Special Access multipoint service serving itself and a specified number of subtending wire centers.

## SPECIAL ACCESS SERVICE

### 7.1 Service Provisioning (Cont'd)

#### 7.1.4 Ordering Options and Provisions

Each channel type is identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces to meet specific communications requirements.

Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channels to meet specific communications requirements. Descriptions of the optional features and functions available are set forth in 7.3 (Service Descriptions, Rates and Charges).

The customer has the option of ordering Voice Grade and High Capacity (analog or digital) facilities (i.e., Group, Supergroup, Mastergroup, DS1 and DS3) to a SWBT facility hub for multiplexing to individual channels of lower capacity or bandwidth (i.e., Telegraph, Voice, Program Audio {1}, etc.). Descriptions of the types of multiplexing available at the hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.3 (Service Descriptions, Rates and Charges).

For example, a customer may order a 1.544 Mbps facility from a customer designated premises to a SWBT hub for multiplexing to Voice Grade, which may be extended to other customer designated premises. (D) Optional features may be added to either the 1.544 Mbps or the Voice Grade channels.

When ordering multipoint service, bridging or multiplexing, the customer will select the designated bridging hub(s) for its serving wire center from the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4 and will select the appropriate subtending wire centers from the Subtending Wire Center Section of F.C.C. No. 4. Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location, while multiplexing from digital to analog may occur at a different location.

Special Access Service is ordered under the Access Order provisions set forth in Section 5 (Ordering Options for Switched and Special Access Services). Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.). Ordering provisions as set forth in 2.6 (Jointly Provided Access Service) will apply when more than one local exchange company (LEC) is involved.

{1} Obsolete -- applicable to existing installations at existing locations for existing customers.

**SPECIAL ACCESS SERVICE**

**7.1 Service Provisioning (cont'd)**

**7.1.7 Acceptance Testing**

Testing and test results are available at the customer's request as follows:

- A.** At no additional charge, SWBT will cooperatively test the following parameters at the time of installation:
  - 1.** For Voice Grade analog service (including WATS Access Lines), acceptance tests will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade services, a balance test will be made if the customer has ordered the improved loss optional feature.
  - 2.** For other analog services (i.e., Metallic, Telegraph and Program Audio {1}), acceptance tests will include tests for the parameters applicable to the service as specified by the customer in the order for service. (T)  
(D)
  - 3.** For digital services, acceptance tests will include tests applicable to the service as specified in the appropriate Technical References for Digital Link and High Capacity services.
- B.** In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade and Digital services to test other parameters, as described in 13.3.7(A) (Additional Cooperative Acceptance Testing), is available.

{1} Obsolete -- Applicable to existing installations at existing locations for existing customers.

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**SPECIAL ACCESS SERVICE**

**7.2 Rate Regulations (Cont'd)**

**7.2.4 Nonrecurring Charges**

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are:

- Installation of Service
- Installation of Optional Features and Functions
- Service Rearrangements.

**(A) Installation of Service**

Nonrecurring charges apply to each service installed. These charges are set forth in 7.3 (Service Descriptions, Rates and Charges) as a nonrecurring charge for the Channel Termination rate element.

**(B) Installation of Optional Features and Functions**

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.

The optional features for which nonrecurring charges apply are:

- Voice Grade Data Capability
- Program Audio Gain Conditioning {1}
- Program Audio Stereo {1}
  
- Digital Link Secondary Channel
- High Capacity Clear Channel Capability

(D)

**(C) (Reserved for Future Use)**

**(D) Service Rearrangements**

Service Rearrangements are changes to existing (installed) services which do not result in either (1) a change in the minimum period requirements as set forth in 5.3.4 (Minimum Period Charges) or (2) a change in the physical location of the Point of Termination at a customer designated premises.

Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts. Changes in the physical location of the Point of Termination are treated as moves and are described and charged for as set forth in 7.2.7 (Moves).

The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service.

{1} Obsolete -- Applicable to existing installations at existing locations for existing customers.

**SPECIAL ACCESS SERVICE**

**7.2 Rate Regulations (Cont'd)**

**7.2.9 Facility Hubs**

SWBT will commence billing the monthly rate for the facility to the hub on the date specified by the customer on the Access Order. Individual services using these facilities may be installed coincident with the installation of the facility to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade or High Capacity digital Channel Termination, Channel Mileage (when applicable), and the Multiplexer at the time the facility is installed. Individual service rates (by service type) will apply for a Channel Termination, additional Channel Mileage (as required) and an Inside Wire Recovery charge, if applicable for each channelized service. These will be billed to the customer as each individual service is installed. The billing must be to the same customer for both parts of the service arrangement. (D)

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Channel Mileage charges also apply between the hubs.

SWBT will designate certain hubs for multipoint configurations and cross-connection of Program Audio Services. The customer will be charged for each such connection made at the rates for Other Labor as set forth in Section 13.2.6(D) (Special Access Move Charges). The rates that apply for the service between each customer designated premises and the hub are a Channel Termination and Channel Mileage, if applicable. In addition, for Program Audio Services, rates for optional features and functions and an Inside Wire Recovery Charge may be applicable.

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**SPECIAL ACCESS SERVICE**

**7.2 Rate Regulations (Cont'd)**

**7.2.10 Shared Use Analog and Digital High Capacity Services**

Shared use occurs when Special Access Service and Switched Access Service are provided over the same High Capacity facilities through a common interface. The facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexer). The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate High Capacity Channel Termination. Rating as Special Access will continue until such time as a portion of the available capacity for providing Special Access Service is used to provide Switched Access Service; in these cases the customer for the Special Access and the Switched Access Service may be different. When the Special Access customer is not the same as the Switched Access Customer, all Special Access charges and Switched Transport charges (including Switched Transport features charges) will be billed to the customer who initially ordered the Special Access Service. All other Switched Access charges will be separately billed to the customer who initially ordered the Switched Access Service. As each individual channel is activated for Switched Access Service, the Special Access Channel Termination, Channel Mileage and Multiplexer rates will be reduced accordingly (e.g., 1/12th for a Group level service, 1/24th for a DS1 service, etc.) except where that channel is utilized in conjunction with CCS/SS7 Interconnection Service. The customer must place an order for each individual Switched or Special Access Service using the shared use facilities and specify the channel assignment for each service. (D)

Switched Access Service rates and charges as set forth in 6.9 (Rates and Charges) will apply for each channel of the shared use facility that is used to provide Switched Access Service. Where Special Access Service is provided using a channel of the shared use facility to the hub, High Capacity rates will apply for the facility to the hub as set forth preceding and individual service rates will apply from the hub to the customer designated premises. The rates that will apply to the portion from the hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade, Telegraph, etc.). The applicable rates will include a Channel Termination rate, Channel Mileage rates, if applicable and an Inside Wire Recovery Charge, if applicable. Rates for optional features and functions, if any, associated with the service will apply as set forth in 7.3 (Service Descriptions, Rates and Charges). (D)

**SPECIAL ACCESS SERVICE**

**7.3 Service Descriptions, Rates and Charges**

**7.3.1 General**

The types of Special Access Service are:

Metallic (MT)  
Telegraph Grade (TG)  
Voice Grade (VG)  
Program Audio (AP) {1}

(D)  
(D)

Digital Link (DL)  
High Capacity (HC)

Each of the channel types has its own characteristics. All are subdivided by one or more of the following:

- Transmission specifications
- Bandwidth
- Speed (i.e., bit rate)
- Spectrum.

**A. Descriptions**

Each service consists of a basic channel to which the following services can be added as required to construct the service desired by the customer:

- Technical specifications packages (customized or predefined)
- Channel interface(s)
- Optional features and functions.

Paragraph (A) of 7.3.2 through 7.3.11 provides a description of the characteristics of each basic channel type and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a SWBT hub where bridging or multiplexing functions are performed. Customized channels are available as specified in 7.2.16.

{1} Obsolete -- Applicable to existing installations at existing locations for existing customers.



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**7.3 Service Descriptions, Rates and Charges (cont'd)**

**7.3.1 General (cont'd)**

**B. Technical Specifications Packages (cont'd)**

- The letter "C" following the two letter code indicates the technical specifications package for a customized service. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. Customized technical specifications packages will be provided where technically feasible. If SWBT determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

SWBT will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in this provision will be maintained at the performance levels specified in this tariff.

All services installed after the effective date of this tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service.

|                 |                |
|-----------------|----------------|
| Metallic        | TR-NPL-000336  |
| Telegraph Grade | TR-NPL-000336  |
| Voice Grade     | TR-TSY-000335  |
| PUB             | 41004, Table 4 |
| WALS            | TR-NWT-000334  |
| Program Audio   | TR-NPL-000337  |

(D)  
(D)

|               |               |
|---------------|---------------|
| Digital Link  | TR-NPL-000341 |
| PUB           | 62310         |
| High Capacity | PUB 76625     |
| PUB           | 62411         |
| TR-INS-000342 |               |

Customers who wish to obtain copies of these references may obtain ordering information from the User's Guide section of this tariff.

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Dallas, Texas  
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**SPECIAL ACCESS SERVICE**

**7.3 Service Descriptions, Rates and Charges (Cont'd)**

**7.3.7**

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**SPECIAL ACCESS SERVICE**

**7.3 Service Descriptions, Rates and Charges** (Cont'd)

7.3.7

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**SPECIAL ACCESS SERVICE**

**7.3 Service Descriptions, Rates and Charges** (Cont'd)

7.3.7

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**SPECIAL ACCESS SERVICE**

**7.3 Service Descriptions, Rates and Charges** (Cont'd)

**7.3.8**

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SPECIAL ACCESS SERVICE

7.3 Service Descriptions, Rates and Charges (Cont'd)

7.3.8

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