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1. BASE RATE SERVICE (Cont'd)

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**3. DS1 SERVICE****A. Description**

DS1 Service provides for the simultaneous two-way transmission of a serial, bipolar, return-to-zero, isochronous digital signal at a terminating bit rate of 1.544 megabits per second (Mbps).

The service is available in a point-to-point configuration between;

- Two customer-designated premises
- A Company wire center or customer-designated premise and a Company wire center where multiplexing, hubbing or cross-connection functions are performed
- Company wire centers for termination in central office multiplexers.
- Two Centrex locations
- The patron of an Interconnector and a Company wire center for connection to Optical Interconnection Service
- A customer-designated or Other Telecommunications Carriers (OTC) premises to the premises of a OTC for connection to the services or facilities of the OTC
- A customer-designated premise and an Network Reconfiguration Service (NRS)<sup>/1/</sup> system location, or between two NRS system locations (C)
- A customer-designated premise and a Company wire center;
  - For access to Centrex
  - For digital trunk access with Digital Trunking Service - Enhanced (DTS-E) or ISDN Prime Service
  - For interconnection to Voice Gateway type network equipment

/1/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15. (N)  
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## 3. DS1 SERVICE (Cont'd)

## B. DEFINITIONS

**Extended Superframe (ESF) Format**

A signaling framing format for DS1 services consisting of frames with 192 information digit time slots preceded by a one digit time slot containing a Frame (F) bit. The ESF framing format consists of 24 consecutive frames as above in a structure where the F bits are divided into three groups used for framing, monitoring and datalink functions according to detailed specifications contained in industry standard ANSI T1.403-1995.

**Superframe (SF or D4) Format**

A signal framing format for DS1 services consisting of frames with 192 information digit time slots preceded by a one digit time slot containing a Frame (F) bit. The SF or D4 framing format consists of twelve consecutive frames as above in a structure where the F bits are used for framing only and are divided into two groups used for terminal framing and signaling framing functions according to detailed specifications contained in industry standard ANSI T1.403-1995.

## C. TERMS AND CONDITIONS

1. DS1 Service is provided at the option of the Company where facilities permit. If appropriate facilities are not available, Special Construction charges may apply.
2. **Rate Zone Wire Center Assignment**  
Each Company wire center has been assigned to a Rate Zone. A table listing all Rate Zone assignments can be found in Part 15, Section 1 (U) of this Tariff.

**3. DS1 SERVICE (Cont'd)****D. Features**

## 1. Optional Features

Network Reconfiguration Service<sup>/1/</sup>

DS1 Service is available for use with Network Reconfiguration Service.

(C)

Central Office Multiplexing and Cross Connect Services

These optional services are available with DS1 Service. Refer to Central Office Multiplexing and Cross Connect Services later in this Section.

Clear Channel Capability

Is an arrangement which allows a customer to transport 1.536 Mbps of information on a DS1 Service with no constraint on the quantity or sequence of one and zero bits. Clear Channel Capability is a required option when 64 Kbps channels are multiplexed onto DS1 Service.

Extended Super Frame

Is available as a nonchargeable, customer specified option.

Shared Network Arrangement

A Shared Network Arrangement is available with DS1 Service. Refer to Shared Network Arrangement in Part 15, Section 1.

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/1/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15.

(N)  
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3. DS1 SERVICE (Cont'd)
- D. FEATURES (Cont'd)
1. Optional Features (Cont'd)

**Specialty Facility Routing - Local Distribution Channel (LDC) Diversity**

Special Facility Routing - LDC Diversity provides a transmission path for services between the customers designated premises (exclusive of the entrance facility) and the serving wire center that is diverse from the normal transmission path. With this arrangement, one or more services will be provisioned over the normal route and one or more services will be provisioned over the diverse route. Special Facility Routing must be ordered at the same time as the DS1 Service is ordered. There are both nonrecurring and monthly charges associated with Special Facility Routing and they are in addition to the normal DS1 Service charges. The transmission specifications and credit allowances for service interruption of services provided via a special facility routing arrangement are the same as for services using normal routing. The minimum service period for a DS1 Service ordered with Special Facility Routing is 12 months. Termination Charges will apply to service terminated prior to the contracted period. The termination charge for Special Facility Routing will be calculated as described in Term Payment Plans - Termination Charges in Part 15, Section 1.

**Super Frame**

Is available as a nonchargeable, customer specified option.

## 3. DS1 SERVICE (Cont'd)

## E. Technical References

<u>Subject</u>	<u>Technical Reference</u>
Digital Service Transmission Parameters	AM TR-TMO-000101
High Capacity Digital Service (1.544Mbps) Interface Generic	GR-54-CORE (Telcordia)
Requirements for End Users High Capacity Digital Special Access Service Transmission Parameter Limits and Interface Specifications	GR-342-CORE (Telcordia)

The Technical Reference can be obtained from:

APEX Support Team  
(734) 523-7348

The Telcordia Publication(s) can be obtained from:

Telcordia Technologies, Inc.  
8 Corporate Place, PYA 3A-184  
Piscataway, New Jersey 08854-4156

## 3. DS1 SERVICE (Cont'd)

## F. PRICES

The Price lists for DS1 Service in this guidebook will be utilized unless market demands require rates and charges to be negotiated with the customer on an individual case basis (ICB).

This guidebook is filed under Sec. 196.194, Wis. Stats. Therefore, any contract or amendment to such contract shall be compensatory as determined under Sec. 196.204 (5) and (6) Wis. Stats. Within 20 days after a contract or an amendment to such a contract has been executed, the Telephone Company shall submit to the Commission written notice of the general nature of the contract and the parties to the contract.

The receipt of notification of any contract or amendment to a contract established under this guidebook shall not constitute approval of all terms and provisions therein. The Commission retains jurisdiction to investigate on its own motion or upon complaint any contractual term or provision under which the guidebook service is offered, and to take any necessary action pursuant to such investigation, including issuing orders.

## 1. Service Elements

Description /Billing Code/	Nonrecurring Charge
Administrative Charge <sup>1</sup> per order	
Zone 1 /NRBA1/	\$ 50.00
Zone 2 /NRBA2/	50.00
Zone 3 /NRBA3/	50.00

NOTE 1: For those customers who choose a Term Payment Plan (TPP) period of 24 months or greater in length for new installations, Administrative Charge, Design and Central Office Connection Charge and Customer Connection Charge will not apply. However, customers requesting termination of service prior to the completion of a minimum of 24 months of a 24 month or greater TPP term will become liable for payment of Nonrecurring Charges described above.

3. DS1 SERVICE (Cont'd)  
 F. PRICES (Cont'd)  
 1. Service Elements (Cont'd)

Description /Billing Code/	Nonrecurring Charge
Design and Central Office Connection Charge <sup>1</sup> per circuit	
Zone 1 /NRBD1/	144.00
Zone 2 /NRBD2/	144.00
Zone 3 /NRBD3/	165.00
Customer Connection Charge <sup>1</sup> per termination	
Zone 1 /NRBB1/	213.00
Zone 2 /NRBB2/	213.00
Zone 3 /NRBB3/	240.00

NOTE 1: For those customers who choose a Term Payment Plan (TPP) period of 24 months or greater in length for new installations, Administrative Charge, Design and Central Office Connection Charge and Customer Connection Charge will not apply. However, customers requesting termination of service prior to the completion of a minimum of 24 months of a 24 month or greater TPP term will become liable for payment of Nonrecurring Charges described above.