REGULATIONS, RATES AND CHARGES

APPLYING TO THE PROVISION OF PRIVATE LINE TRANSPORT SERVICES
FOR CONNECTION TO INTRASTATE COMMUNICATIONS FACILITIES
FOR INTRASTATE CUSTOMERS WITHIN THE
OPERATING TERRITORY OF THE

EL PASO COUNTY TELEPHONE COMPANY D/B/A CENTURYLINK
WHETHER OFFERED UNDER THE NAME, OR THE TRADE OR BRAND NAME CENTURYLINK

IN THE STATE OF COLORADO
AS PROVIDED HEREIN

RATE CENTERS:
RUSH
EL PASO

PRIVATE LINE TRANSPORT SERVICES
ARE PROVIDED BY MEANS OF WIRE, FIBER OPTICS, RADIO, OR ANY OTHER SUITABLE TECHNOLOGY OR A COMBINATION THEREOF.

1. APPLICATION AND REFERENCE

1. APPLICATION AND REFERENCE

1.1 APPLICATION OF CATALOG

This catalog contains regulations, rates and charges applicable to the provision of Private Line Transport Services (Special Access) and other Miscellaneous Services furnished by El Paso County Telephone d/b/a CenturyLink, hereinafter referred to as the Telephone Company.

The provision of such services by the Telephone Company as set forth in this catalog does not constitute a joint undertaking with the customer for the furnishing of any service.

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1. APPLICATION AND REFERENCE

1.3 EXPLANATION OF CHANGE SYMBOLS

(R)	To signify reduction.
(I)	To signify increase.
(C)	To signify changed regulation.
(T)	To signify a change in text but no change in rate or regulation.
(S)	To signify reissued matter.
(M)	To signify matter relocated without change.
(N)	To signify new rate or regulation.
(D)	To signify discontinued rate or regulation.
(Z)	To signify a correction.

1. APPLICATION AND REFERENCE

1.4 EXPLANATION OF ABBREVIATIONS

ac	-	Alternating Current
AT&T	-	American Telephone and Telegraph company
BD	-	Business Day
BHMC	-	Busy Hour Minutes of Capacity
CO	-	Central Office
Cont'd	-	Continued
CPE	-	Customer Premises Equipment
DA	-	Directory Assistance
dB	-	Decibel
d/b/a	-	Doing Business As
dc	-	Direct Current
EPL	-	Echo Path Loss
ESS	-	Electronic Switching System
ESSX	-	Electronic Switching System Exchange
f	-	Frequency
F.C.C.	-	Federal Communications Commission
FX	-	Foreign Exchange
Hz	-	Hertz
IC	-	Interexchange Carrier
ICB	-	Individual Case Basis

1. APPLICATION AND REFERENCE

1.4 EXPLANATION OF ABBREVIATIONS (Cont'd)

Kbps	-	kilobits per second
kHz	-	kilohertz
LATA	-	Local Access and Transport Area
MMUC	-	Minimum Monthly Usage Charge
MRC	-	Monthly Recurring Charge
MTS	-	Message Telecommunications
NPA	-	Numbering Plan Area
NRC	-	Nonrecurring Charge
NTS	-	Non-Traffic Sensitive
NXX	-	Three-Digit Central Office Code
PBX	-	Private Branch Exchange
PCM	-	Pulse Code Modulation
POT	-	Point of Termination
TSPS	-	Traffic Service Position System
TV	-	Television
VG	-	Voice Grade
V&H	-	Vertical & Horizontal
WATS	-	Wide Area Telecommunications Service(s)

(D)

1. APPLICATION AND REFERENCE

1.5 REFERENCE TO OTHER TARIFFS

Whenever reference is made in this Catalog to other tariffs of the Telephone Company, the reference is to the tariffs in force as of the effective date of this tariff, and to amendments thereto and successive issues thereof.

USE OF THE CATALOG

This catalog contains the regulations, rates and charges applicable to the provision of Private Line Transport Services by the Issuing Carrier.

1.6 REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are referenced in this catalog and may be obtained from Telcordia Technologies, Inc., Customer Services, One Ericsson Drive., RRC 4A-1060, Piscataway, NJ 08854-4156.

Technical Reference**:**

1. PUB 41451
   Issued: January, 1983 Available:..... May 17, 1983
2. PUB 41004
   Issued: October, 1973 Available:.....October, 1973
3. PUB 62500
   Issued: December, 1983 Available:..... March 15, 1984
4. PUB 62501 & Associated Addendum
   Issued: December, 1983 Available:..... March 15, 1984
5. PUB 62502
   Issued: December, 1983 Available:..... January, 1984

1. APPLICATION AND REFERENCE

1.6 REFERENCE TO TECHNICAL PUBLICATIONS (CONT'D)

6. PUB 62503 & Associated Addendum
   Issued: December, 1983 Available:.....March 15, 1984

7. PUB 62504 & Associated Addendum
   Issued: December 1983 Available:.....March 15, 1984

8. PUB 62505 & Associated Addendum
   Issued: December, 1983 Available:.....January, 1984

9. PUB 62506
   Issued: December, 1983 Available:.....January 1984

10. PUB 62507
    Issued: December, 1983 Available:.....March 15, 1984

11. PUB 62508
    Issued: December, 1983 Available:.....January, 1984

12. PUB 62310
    Issued: September, 1983 Available:.....October, 1983

13. PUB 62411
    Issued: September, 1983 Available:.....October, 1983

14. PUB TR EOP-000178
    Issued: 3rd Quarter 1985 Available:.....3rd Quarter 1985

15. TR-NPL-000335 Revision 1, Voice Grade Special Access
    Issued: February, 1987

1. APPLICATION AND REFERENCE

1.6 REFERENCE TO TECHNICAL PUBLICATIONS (CONT'D)

The following technical publication is referenced in this catalog and may be obtained from Telcordia Technologies, Inc., Customer Services, One Ericsson Drive., RRC 4A-1060, Piscataway, NJ 08854-4156:

Telecommunications Transmission Engineering
Volume 3-Networks and Services (Chapters 6 and 7)
Second Edition, 1980
Issued: June, 1980 Available: June, 1980

The following technical publication is referenced in this catalog and may be obtained from the National Exchange Carrier Association, Inc., Director-Tariff and Regulatory Matters, 100 S. Jefferson Road, Whippany, N.J. 07981 and the Federal Communications Commission's commercial contractor.

PUB AS No. 1-Issue II
Issued: May, 1984 Available: May, 1984

2. GENERAL REGULATIONS

2. GENERAL REGULATIONS

2.1 GENERAL

Section 2, General Regulations set forth in the Access Service Tariff COLO. P.U.C. No. 11, is made part of this document by reference.

3. RESERVED FOR FUTURE USE

4. RESERVED FOR FUTURE USE

5. ORDERING OPTIONS FOR PRIVATE LINE TRANSPORT SERVICES

5. ORDERING OPTIONS FOR PRIVATE LINE TRANSPORT SERVICES

5.1 GENERAL

This section sets forth the order related regulations and charges for Private Line Transport Services (PLTS). These regulations and charges are in addition to other applicable regulations and charges as set forth in other sections of this tariff.

5.1.1 ORDERING CONDITIONS

A customer may order any number of services of the same type and between the same premises on a single Access Order.

The ordering customer must provide a copy of the access order to the Telephone Company. The customer shall provide all information necessary for the Telephone Company to provide and bill for the requested service. In addition to the order information required in 5.2., following, the customer must also provide:

- Customer name and premises address(es).
- Billing name and address (when different from customer name and address).

  - Customer contact name(s) and telephone number(s) for the following provisioning activities:
    1. order negotiation
    2. order confirmation
    3. interactive design
    4. installation
    5. billing

5.1.2 PROVISION OF OTHER SERVICES

Other services as described in 9.1., and 9.2., following, may be ordered in conjunction with the order for Access Service. All rates and charges set forth in 12.2., following, will apply in addition to the rates and charges for the Private Line Transport Services with which they are associated.

5. ORDERING OPTIONS FOR PRIVATE LINE TRANSPORT SERVICES

5.2 ACCESS ORDER

An Access Order is used by the Telephone Company to provide a customer Access Service as follows:

- Private Line Transport Services as set forth in Section 7., following.
- Other Services as set forth in Section 9., following.

When placing an order for Private Line Transport Service, the customer shall provide, at a minimum, the following information:

A. The type of service requested (Metallic, Voice Grade, etc.)

B. The customer designated premises or hubs involved.

C. The channel interface, technical specification package and options desired.

D. Where the service is exempt from the Private Line Transport Services Surcharge as set forth in 7., following, the customer shall furnish with the order the certification as set forth in 7., following.

5.3 ACCESS ORDER SERVICE INTERVALS

To the extent the Access Service can be made available with reasonable effort, the Telephone Company will provide Access Service in accordance with the customer's requested interval. The Telephone Company is not responsible for any delays caused by any other connecting exchange telephone company in the provision of service to the customer's point of termination.

If in order to meet the customer's requested service date, work must be performed outside scheduled work hours, Additional Labor charges as described in Section 9. will apply.

5. ORDERING OPTIONS FOR PRIVATE LINE TRANSPORT SERVICES

5.4 ACCESS ORDER MODIFICATIONS

The customer may request a modification of its Access Order prior to the service date. The Telephone Company will make every effort to accommodate a requested modification when it is able to do so with the normal work force assigned to complete such an order within normal business hours. If the modification cannot be made with the normal work force during normal business hours, the Telephone Company will notify the customer that additional labor and/or engineering charges will apply. If the customer still desires the Access Order modification and agrees to any additional charges which may apply, the Telephone Company will schedule a new service date. Additional labor or engineering charges as described in Section 9., following, will apply.

A. Service Date Change

Access Order service dates may be changed, but the new service date may not exceed the original service date by more than sixty (60) calendar days. If the customer requested service date is more than sixty (60) calendar days after the original service date, the order will be cancelled by the Telephone Company and reissued. The appropriate cancellation charges as set forth in 5.5., following, will apply. If the Telephone Company determines it can accommodate the customer's request with the normal work force during normal business hours and without delaying service dates for orders of other customers, a new service date may be established that is prior to the original service date. No charges will apply. (C) (C)

If the requested service date is changed to an earlier date, and the Telephone Company determines additional labor or extraordinary costs are necessary to meet the request, the customer will be notified by the Telephone Company that Additional Labor Charges as described in Section 9., following, may apply.

B. Change in Lines or Capacity

Any increase in the number Private Line Transport Service channels will be treated as a new Access Order (for the increased amount only).

Any decrease in the number of Private Line Transport Service channels will be treated as a partial cancellation and the charges as set forth in Section 5.5., following, will apply.

5. ORDERING OPTIONS FOR PRIVATE LINE TRANSPORT SERVICES

5.5 CANCELLATION OF AN ACCESS ORDER

A. A customer may cancel an Access Order for the installation of service at any time prior to notification by the Telephone Company that service is available for the customer's use. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be cancelled. The verbal notice must be followed by written confirmation within ten (10) days. If a customer or a customer's end user is unable to accept Access Service within thirty (30) calendar days of the latest agreed upon service date, the customer has the choice of the following options: (C) (C) (T) (C) (C)

- The Access Order will be canceled and charges set forth in B., following, will apply if the service has not been fully provisioned; or (N)
- The Access Order will be completed and billing for the service will commence if the service has been fully provisioned or the customer has indicated that billing for the service should begin. (N)

B. When a customer cancels an Access Order, a Cancellation Charge will apply as follows:

1. Installation of Private Line Transport Service facilities is considered to have started when the Telephone Company incurs any cost in connection with the installation. Where installation of access facilities has been started prior to the cancellation, the charges specified in a. or b. following, whichever is less, shall apply.

   a. A charge equal to the nonrecoverable cost of equipment and material ordered, provided or used, plus the nonrecoverable cost of installation and removal including the costs of engineering, labor, supervision, transportation, right-of-way and other associated costs less actual net salvage received after disposal of facilities.

   b. The charge for the minimum period of Private Line Transport Services ordered by the customer.

2. Where the customer cancels an Access Order prior to the start of installation of access facilities, no charges shall apply.

C. If the Telephone Company misses a service date by more than 30 days due to circumstances over which it has direct control (excluding, e.g., acts of God, governmental requirements, work stoppages and civil commotions), the customer may cancel the Access Order without incurring cancellation charges.

5. ORDERING OPTIONS FOR PRIVATE LINE TRANSPORT SERVICES

5.6 SELECTION OF FACILITIES FOR ACCESS ORDERS

The Telephone Company will make a reasonable effort to accommodate a customer request for a specific transmission path. The Telephone Company will make the final determination as to transmission paths utilized in the provision of service.

5.7 MINIMUM PERIOD

The minimum period for which Private Line Transport Services (PLTS) is provided and for which charges are applicable is one month.

When PLTS are disconnected prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period.

The Minimum Period Charge for Private Line Transport Services will be a month or fraction thereof at the applicable monthly rates as set forth in 12.1., following.

5. ORDERING OPTIONS FOR PRIVATE LINE TRANSPORT SERVICES

5.8 ACCESS ORDERS FOR SERVICES PROVIDED BY MORE THAN ONE TELEPHONE COMPANY

A. Access Service provided by more than one Telephone Company are Services where one end of the Channel Mileage element is in the operating territory of one Telephone Company and the other end of the element is in the operating territory of a different Telephone Company.

The ordering procedure for this service is as follows:

1. Multiple Company (Interconnection Point) Billing

Each Telephone Company will provide its portion of the Access Service within its operating territory to an interconnection point(s) (IP) with the other Telephone Company(s). Each Telephone Company will bill the customer for its portion of the service as set forth Section 2, of the Access Service Tariff COLO. P.U.C. No. 11. All other appropriate charges in each Telephone Company tariff are applicable.

a. For Private Line Transport Services involving a hub(s), the customer must place the order with the Telephone Company in whose territory the hub(s) is located.

b. For Private Line Transport Services to be interconnected with Switched Access Services at Telephone Company designated WATS Serving Offices for the provision of WATS or WATS-type Services, the customer must place an order with each Telephone Company in whose territory the end office and the WATS Serving Office are located, if they are not collocated. [1] (C)

(N)
[1] **Effective November 9, 2021, WATS Access Lines are grandfathered. Availability to current customers is limited to circuits in service at existing locations.** (N)

6. RESERVED FOR FUTURE USE

7. PRIVATE LINE TRANSPORT SERVICES

7. PRIVATE LINE TRANSPORT SERVICES

7.1 GENERAL

Private Line Transport Service provides a transmission path to connect two or more customer designated premises[1] when all designated premises can be connected with facilities provided by the Telephone Company. If only a portion of the facilities can be provided by the Telephone Company, Private Line Transport Service provides the transmission path necessary to connect customer designated premises in the Telephone Company's serving area with the interconnection point with another exchange telephone company. Private Line Transport Service includes all exchange access which does not utilize Telephone Company end office switching.

7.1.1 RATE ELEMENTS

There are three basic rate elements which may apply to a Private Line Transport Service in addition to the Private Line Access Surcharge described in Section 7.4.3., following.

A. Channel Termination

The Channel Termination provides for the communication path between a customer designated premises and the serving wire center of that premises. One Channel Termination charge applies per customer designated premises, located in the serving area of the Telephone Company, at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Termination as set forth in 12.1., following.

[1] Telephone Company Centrex CO switches are considered to be customer premises for purposes of this tariff.

7. PRIVATE LINE TRANSPORT SERVICES

7.1 GENERAL
7.1.1 RATE ELEMENTS (Cont'd)

B. Channel Mileage

The Channel Mileage rate category provides for the end office equipment and the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company hub, between two Telephone Company hubs, or between a serving wire center associated with a customer designated premises and the WATS serving office, or, if the customer utilizes the facilities of another connecting exchange carrier to access a customer designated premises, the Channel Mileage charge will provide for facilities between the end office switch and the interconnection point with the connecting exchange carrier.

The Channel Mileage rate will apply at the serving wire center(s) for each customer designated premises. If the Channel Mileage is between Telephone Company bridging hubs, the Channel Mileage rate will apply once. When the Channel Mileage is zero (i.e., co-located serving wire centers), the Channel Mileage rate will not apply. Refer to 12.1., following.

7. PRIVATE LINE TRANSPORT SERVICES

7.1 GENERAL
7.1.1 RATE ELEMENTS (Cont'd)

C. Optional Features and Functions

Optional features and functions may be added to a Private Line Transport Service to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment installed at various locations along the path of the service. Bridging and multiplexing are Optional Feature and Functions which must be performed at a Telephone Company hub office as described in Section 7.1.6., following. No Optional Features and Functions have been requested by customers. Currently, only Type C Conditioning has rates established in this tariff. At such time as other services are requested, and if facilities are available, rates and regulations will be filed in this tariff in order to provide the requested services.

C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-NPL-000335.

7. PRIVATE LINE TRANSPORT SERVICES

7.1 GENERAL

7.1.2 DESIGN LAYOUT REPORT

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Private Line Transport Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever the facilities are materially changed.

7.1.3 ACCEPTANCE TESTING

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test at the time of installation the following parameters:

A. For Voice Grade analog services, acceptance test 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 (improved loss) test will be made if the customer has ordered the improved loss optional feature.

B. For Metallic services, acceptance tests will include tests for the parameters applicable to the service as specified by the customer in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade service to test other parameters is available at the customer's request. All test results will be made available to the customer upon request. The rates described in Section 12.2., following, for Additional Labor will apply when additional tests are performed.

7. PRIVATE LINE TRANSPORT SERVICES

7.1 GENERAL

7.1.4 SERVICE DESCRIPTIONS

For the purposes of ordering, there are four categories of Private Line Transport Service: Metallic (MT) [1], Voice (VG) [1], Digital Data (DD) [1] and High Capacity (HC). (C)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Technical specifications packages are described in this section. Channel interfaces are non-chargeable features of a Private Line Transport Service and are described in 11.3., following.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered, the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises, between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed, or, between a customer designated premises and the WATS serving office.

[1] **Effective November 9, 2021, Metallic, Voice Grade, and Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.** (N) | (N)

7. PRIVATE LINE TRANSPORT SERVICES

7.1 GENERAL
7.1.4 SERVICE DESCRIPTIONS (Cont'd)

A. Information pertaining to the technical specifications package described in 7.2., following, indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Private Line Transport Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Private Line Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

B. Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in 11.3., following, in a combination format.

C. Only certain channel interface combinations are available with the predefined technical specification packages. These are delineated in the Technical References set forth in 7.1.4.E., following. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

D. The Telephone Company 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 the provision will be maintained at the performance levels specified in this tariff.

7. PRIVATE LINE TRANSPORT SERVICES

7.1 GENERAL
7.1.4 SERVICE DESCRIPTIONS (Cont'd)

E. 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	PUB	62502
Voice Grade	PUB	62501 and associated Addendum
	PUB	41004, Table 4
Digital Data	PUB	62507 and associated Addendum
	PUB	62310
High Capacity	PUB	62508
	PUB	62411

7.1.5 ORDERING OPTIONS AND CONDITIONS

Private Line Transport Service is ordered under the Access Order provisions set forth in 5., preceding. Also included in that section are other charges which may be associated with ordering Private Line Transport Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

7.1.6 FACILITY HUBS

A hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. National Exchange Carrier Association Tariff F.C.C. No. 4 identifies serving wire centers, hub locations and the type of bridging or multiplexing functions available. (T)

7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS

There are four basic types of channels used to provide Private Line Transport Services. Each type has its own characteristics. All are subdivided by one or more of the following:

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

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

For purposes of ordering channels, each has been identified as a type of Private Line 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.

7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS (Cont'd)

7.2.1 METALLIC SERVICE CHANNEL DESCRIPTION [2] (C)

A Metallic channel is an unconditioned two-wire channel arranged to transmit direct current and capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designed premises or between a customer designated premises and a Telephone Company hub where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

A. Technical Specifications Packages

	PACKAGE MT			
Parameter	C[1]	1	2	3
DC Resistance Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X

The technical specifications are delineated in Technical Reference PUB 62502

B. Channel Interfaces

Compatible channel interfaces are set forth in 11.3., following.

[1] All parameters are available within the ranges selected by the customer where technically feasible.

[2] **Effective November 9, 2021, Metallic Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.** (N) (N)

7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS (Cont'd)

7.2.2 VOICE GRADE SERVICE CHANNEL DESCRIPTION [2] (C)

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub, or between a customer designated premises and a WATS serving office.

A. Technical Specifications Packages

	PACKAGE VG												
	C [1]	1	2	3	4	5	6	7	8	9	10	11	12
Parameter													
Attenuation Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X		X		X	X			X	X
Envelope Delay Distortion	X						X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X
Intermodulation Distortion	X						X	X	X	X	X	X	
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain Hits, and Dropouts	X												
Phase Jitter	X						X	X	X	X	X	X	
Signal-to-C Message Noise					X								
Signal-to-C Notch Noise	X					X	X	X	X	X	X	X	X

The technical specification for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference PUB 62501 and associated Addendum. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.

[1] The desired parameters are selected by the customer from the list of available parameters.

[2] **Effective November 9, 2021, Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.** (N) (N)

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7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS
7.2.2 VOICE GRADE SERVICE CHANNEL DESCRIPTION [1] (Cont'd) (C)

B. Channel Interfaces

The following channel interfaces for Voice Grade service do not require signaling capability. AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade service require signaling capability. AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Compatible channel interfaces are set forth in l1.3., following.

7.2.3 DIGITAL DATA SERVICE CHANNEL DESCRIPTION [1] (C)

A Digital Data Circuit is a circuit capable of four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, or 56 kbps. The actual bit rate is a function of the channel interface selected by the customer. The circuit provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital data circuits are only available via Telephone Company designated wire centers and are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

[2] **Effective November 9, 2021, Voice Grade and Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.** (N) | (N)

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7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS
7.2.3 DIGITAL DATA SERVICE CHANNEL DESCRIPTION (Cont'd)

There are four service categories from which the customer may choose. These are:

2.4 Kbps – equivalent to:

- DA1 – A circuit suitable for transmitting serial synchronous digital data at a 2.4 Kbps rate. The service is synchronized with timing provided through the Telephone Company's facilities to the customer on the received bit stream. The transmission interfaces are provided on a two-point or multipoint, four-wire only basis.

- DP – A circuit suitable for transmitting synchronous digital data at a rate of 2.4 Kbps. The service is synchronized with timing provided through the Telephone Company's facilities to the customer on the received bit stream. The transmission interfaces are provided on a two-point or multipoint, four-wire only basis.

4.8 Kbps – equivalent to:

- DA2 – A circuit suitable for transmitting serial synchronous digital data at a rate of 4.8 Kbps. The service is synchronized with timing provided through the Telephone Company's facilities to the customer on the received bit stream. The transmission interfaces are provided on a two-point or multipoint, four-wire only basis.

  or;

- DQ - A circuit suitable for transmitting synchronous digital data at a rate of 4.8 Kbps. The service is synchronized with timing provided through the Telephone Company's facilities to the customer on the received bit stream. The transmission interfaces are provided on a two-point or multipoint, four-wire only basis.

7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS
7.2.3 DIGITAL DATA SERVICE CHANNEL DESCRIPTION (Cont'd)

9.6 Kbps – equivalent to:

- DA3 – A circuit suitable for transmitting serial synchronous data at the 9.6 Kbps rate. The service is synchronized with timing provided through the Telephone Company's facilities to the customer on the received bit stream. The transmission interfaces are provided on a two-point or multipoint, four-wire only basis.

  or;

- DR – A circuit suitable for transmitting digital synchronous data at a rate of 9.6 Kbps. The service is synchronized with timing provided through the Telephone Company's facilities to the customer on the received bit stream. The transmission interfaces are provided on a two-point or multipoint, four-wire only basis.

56 Kbps – equivalent to:

- DA4 – A circuit suitable for transmitting serial synchronous data at the 56 Kbps rate. The service is synchronized with timing provided through the Telephone Company's facilities to the customer on the received bit stream. The transmission interfaces are provided on a two-point or multipoint, four-wire only basis.

  or;

- DW – A circuit suitable for transmitting synchronous digital data operating at a speed of 56 Kbps. The service is synchronized with timing provided through the Telephone Company's facilities to the customer on the received bit stream. The transmission interfaces are provided on a two-point or multipoint, four-wire only basis.

The customer must provide the Channel Service Unit-type equipment or other customer provided equipment associated with the Digital Data circuit at the customer premises. The interim program for interconnection of such equipment is set forth in technical publications listed under the Reference to Technical Publications, preceding.

7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS
7.2.3 DIGITAL DATA SERVICE CHANNEL DESCRIPTION (Cont'd)

A. Technical Specifications Packages

	PACKAGE			
SD Code	D1	D2	D3	D4
NC Code	XA	XB	XG	XH
Parameter				
Error-Free Seconds	X	X	X	X
Optional Features And Functions				
Central Office Bridging Capability	X	X	X	X
PPSN Interface Transfer Arrangement	X	X	X	X
Transfer Arrangement	X	X	X	X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference PUB 62507.

7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS
7.2.3 DIGITAL DATA SERVICE CHANNEL DESCRIPTION (Cont'd)

B. Channel Interfaces

The following network channel interfaces (NCIs) define the bit rates that are available for a Digital Data channel:

NCI	BIT RATE
DU-24	2.4 Kbps
DU-48	4.8 Kbps
DU-96	9.6 Kbps
DU-56	56.0 Kbps

Compatible Channel interfaces are set forth in 11.3., following.

7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS (Cont'd)

7.2.4 HIGH CAPACITY SERVICE CHANNEL DESCRIPTION – GRANDFATHERED (C)

Effective August 15, 2024, Private Line DS-1 and DS-3 Services are grandfathered. New contracts or renewal of existing contracts will no longer be accepted for these services, effective immediately. Existing services are limited to circuits in service at existing locations. Customers with a contract may retain their Intrastate Private Line circuit on a month-to-month basis once the contract expires. (N) (N)

High Capacity Service provides point-to-point digital facilities for two-way transmission of serial, bipolar, return to zero isochronous digital signals at a transmission speed of 1.544 Megabits per second.

Information pertaining to the technical specifications and compatible channel interfaces are set forth in the technical publications listed under the Reference to Technical Publications, preceding.

A. Regulations

1. High Capacity Service can only be provided from wire centers equipped for digital transmission. This service is subject to the technical limitations of the CO equipment used by the Telephone Company.

2. A wire center may be equipped for digital transmission at the request of the customer. Special construction charges may apply depending on the circumstances in each case.

3. Special construction charges may apply to terminate service outside a base rate area.

4. All signals transmitted over High Capacity Service must be compatible with the Telephone Company's specifications and formats to preserve the integrity of the network.

B. Optional Features and Functions

1. Automatic Loop Transfer
2. Transfer Arrangement
3. Central Office Multiplexing
4. Automatic Protection Switching

7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS

7.2.4 HIGH CAPACITY SERVICE CHANNEL DESCRIPTION – GRANDFATHERED (Cont'd) (C)

C. Rates and Charges

This service is competitive in the private line market and is priced with the maximum flexible treatment, per DECISION NO. C87-1347, issued by the Public Utilities Commission of the State of Colorado.

D. Technical Specifications Packages

	PACKAGE					
SD Code	HCO	HC1	HC1C	HC2	HC3	HC4
NC Code	HS	HC	HD	HE	HF	HG
Parameters						
Error-Free Seconds		X				
Optional Features And Functions						
Automatic Loop Transfer		X				
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DSO		X				
DSO to Subrate[1]	X					
Transfer Arrangement		X				

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

[1] Available only on a channel of 1.544 Mbps facility to a Telephone Company hub.

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7. PRIVATE LINE TRANSPORT SERVICES

7.2 CHANNEL TYPES AND SERVICE DESCRIPTIONS

7.2.4 HIGH CAPACITY SERVICE CHANNEL DESCRIPTION – GRANDFATHERED (Cont'd) (C)

E. Channel Interfaces

The following network channel interfaces (NCIs) define the bit rates that are available for a High Capacity channel:

NCI	BIT RATE
DS-15	1,544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

Compatible Channel interfaces are set forth in 11.3., following.

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7. PRIVATE LINE TRANSPORT SERVICES

7.3 SERVICE CONFIGURATIONS

There are two types of service configurations over which Private Line Transport Service are provided: two-point service and multipoint service.

7.3.1 TWO-POINT SERVICE

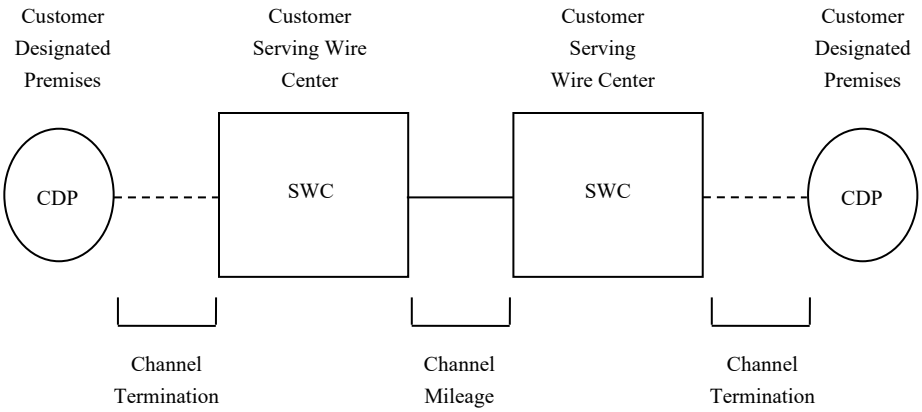
A two-point service connects two customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed.

Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

A Private Line Access Surcharge, as set forth in 7.4.3., following, may be applicable.

The following diagram depicts a two-point Voice Grade service connecting two customer designated premises (CDP) located 15 miles apart.



Applicable rate elements are:

- Channel Terminations (1 applicable per CDP)
- Channel Mileage (1 section)

7. PRIVATE LINE TRANSPORT SERVICES

7.3 SERVICE CONFIGURATIONS (Cont'd)

7.3.2 MULTIPOINT SERVICE

Multipoint service connects three or more customer designated premises through a Telephone Company hub. Only certain types of Private Line Transport Service are provided as multipoint service. These are so designated in the descriptions for the appropriate channel.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multipoint service. However, when more than three mid-links in tandem are provided, the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.4., preceding, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging hub(s). National Exchange Carrier Association Tariff F.C.C. No. 2 identifies serving wire centers, hub locations and the type of bridging functions available. (T)

Applicable rate elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between the serving wire center for each customer designated premises and the hub and between hubs).
- Additional Optional Features and Functions (when applicable).

The Private Line Transport Service Surcharge, as set forth in 7.4.3., following, may be applicable.

7. PRIVATE LINE TRANSPORT SERVICES

7.4 RATE REGULATIONS

This section contains the specific regulations governing the rates and charges that apply for Private Line Access Service.

7.4.1 APPLICATION OF RATES AND CHARGES

A. Nonrecurring Charges

Nonrecurring Charges apply to each installation of service as a one-time charge. Changes to existing services will be treated as a discontinuance of the existing service and an installation of a new service.

If an additional leg is added to an existing multipoint service, nonrecurring charges will only apply to the additional termination.

Nonrecurring charges apply for each Channel Termination installed and are set forth in 12.1., following.

B. Recurring Charges

Recurring charges apply to the ongoing provision of Private Line Transport Service to the customer. Monthly rates are recurring rates that apply for each month or fraction thereof that a Private Line Transport Service is provided. For billing purposes, each month is considered to have 30 days.

7.4.2 MINIMUM PERIODS

Private Line Transport Service is provided for a minimum period of one month

7. PRIVATE LINE TRANSPORT SERVICES

7.4 RATE REGULATIONS (Cont'd)

7.4.3 SURCHARGE FOR PRIVATE LINE TRANSPORT SERVICES

A. General

The Private Line Transport Services Surcharge will apply to each intrastate Private Line Transport Service that terminates on an end user's PBX or other device where, through a function of the device, the Private Line Transport Service interconnects to the local exchange network. Interconnection functions include but are not limited to wiring and software functions, bridging, switching or patching of calls or stations. The Surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex Co-type switch. The Surcharge rate is set forth in 12.1., following.

B. Exemption of Private Line Transport Services

Private Line Transport Service will be exempted from the Surcharge by the Telephone Company upon receipt of the customer's written certification as described in 7.4.3.C., following, for the following Private Line Transport Service terminations:

1. an open-end termination in a Telephone Company switch to an FX line, including CCSA and CCSA-equivalent ONALs; or

2. an analog channel termination that is used for radio or television program transmission; or

3. a termination used for TELEX service; or

4. a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines such as, terminations which are restricted through hardware or software; or

5. a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line Charges; or

6. a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device which interconnects the Private Line Transport Service to a local exchange subscriber line.

7. PRIVATE LINE TRANSPORT SERVICES

7.4 RATE REGULATIONS
7.4.3 SURCHARGE FOR PRIVATE LINE TRANSPORT SERVICE (Cont'd)

C. Exemption Certification

1. Private Line Transport Services which are terminated as set forth in 7.4.3.B., preceding, will be exempted from the Private Line Access Surcharge if the customer provides the Telephone Company with written exemption certification. The certification may be provided to the Telephone Company (1) at the time the Private Line Transport Service is ordered or installed; (2) at such time as the service is reterminated to a device which does not interconnect to the service to local exchange facilities, or (3) at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.

2. The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in 7.4.3.B., preceding, for each termination, and the date which the exemption is effective.

3. The customer shall also notify the Telephone Company when an exempted Private Line Transport Service is changed or reterminated such that the exemption is no longer applicable.

4. The Telephone Company will work cooperatively with the customer to resolve any questions regarding the exempt certification. In addition, the Telephone Company may withhold exemption of the service until the questions are resolved.

7. PRIVATE LINE TRANSPORT SERVICES

7.4 RATE REGULATIONS
7.4.3 SURCHARGE FOR PRIVATE LINE TRANSPORT SERVICE (Cont'd)

D. Application of Surcharge

1. The Telephone Company will bill the appropriate Private Line Access Surcharge to the ordering customer for each intrastate Private Line Transport Service installed unless exemption certification is provided as set forth in 7.4.3., preceding. In the case of multipoint Private Line Access Services, one Private Line Access Surcharge will apply for each termination of a Private Line Access Channel at an end user's premises.

2. If a written certification is not received at the time the Private Line Transport Service is obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in 3., following.

3. The Telephone Company will cease billing the Private Line Access Surcharge when certification is received. If the status of the Private Line Transport Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account not to exceed ninety (90) days, based on the effective date of the change as specified by the customer in the letter of certification.

8. RESERVED FOR FUTURE USE

9. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

9. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

In this section, normally scheduled working hours are an employee's scheduled work period on any given business day which totals eight (8) hours.

9.1 ADDITIONAL ENGINEERING

Additional Engineering will be provided by the Telephone Company at the request of the customer when:

A. A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in 7.1.2., preceding.

B. Additional engineering time is incurred by the Telephone Company to engineer a customer's request for a customized service as set forth in 7.2., preceding.

The Telephone Company will notify the customer that additional engineering charges will apply before any additional engineering is undertaken.

9.1.1 CHARGES FOR ADDITIONAL ENGINEERING

The charges for Additional Engineering are as shown in 12.2., following.

9.2 ADDITIONAL LABOR

Additional labor is that labor requested by the customer on a given service and agreed to by the Telephone Company. The Telephone Company will notify the customer that additional labor charges will apply before any additional labor is undertaken.

9.2.1 OVERTIME INSTALLATION

Overtime installation is that Telephone Company installation effort outside of normally scheduled working hours.

9. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

9.2 ADDITIONAL LABOR (Cont'd)

9.2.2 OVERTIME REPAIR

Overtime repair is that Telephone Company maintenance effort performed outside of normally scheduled working hours.

9.2.3 STAND BY

Stand by includes all time in excess of one-half (1/2) hour during which Telephone Company personnel stand by to make installation acceptance tests or cooperative tests with a customer.

9.2.4 TESTING AND MAINTENANCE WITH OTHER TELEPHONE COMPANIES

Additional labor charges apply for additional testing, maintenance or repair of facilities which connect to facilities of other telephone companies. This is in addition to the normal effort required to test, maintain or repair facilities provided solely by the Telephone Company.

9.2.5 TESTING SERVICES

Testing Services other than those described in other parts of this tariff will be provided at the hourly rates described if requested by the customer. Testing will be provided subject to the availability of equipment and qualified personnel.

9.2.6 OTHER LABOR

Other labor is that additional labor incurred to accommodate a specific customer request that involves labor which is not covered by any other section of this tariff. It also covers additional labor necessary to meet customer requests as described in Section 5., preceding.

9.2.7 CHARGES FOR ADDITIONAL LABOR

The charges for additional labor are shown in 12.2., following.

9. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

9.3 MISCELLANEOUS SERVICES

9.3.1 MAINTENANCE OF SERVICE

A. When a customer reports a trouble to the Telephone Company for clearance and the trouble is not in the Telephone Company's facilities, the customer shall be responsible for payment of a Maintenance of Service charge for the period of time from when Telephone Company personnel are dispatched to the customer's premises to when the work is completed.

B. The charges for Maintenance of Service are shown in 12.2., following.

9.3.2 PROGRAMMING SERVICES

A. Programming charges apply when a request by a customer for information concerning the access services provided to the customer result in the creation of new computer software or the modification of existing software in order to provide the requested information.

The Telephone Company will notify the customer that additional programming charges will apply before any additional programming is undertaken.

B. The charges for Programming Service are shown in 12.2., following.

10. SPECIAL CONSTRUCTION

10. SPECIAL CONSTRUCTION

10.1 GENERAL

This section addresses special construction of Telephone Company facilities which are used to provide services offered under this tariff.

When special construction is required as described in 10.2., following, the provisions of this section apply in addition to regulations, rates, and charges set forth in other sections of this tariff.

The customer will provide written authorization to the Telephone Company prior to the commencement of any Special Construction.

10.2 CONDITIONS REQUIRING SPECIAL CONSTRUCTION

Special Construction is required when suitable facilities are not available to meet a customer's order for service and one or more of the following conditions exist:

- The Telephone Company has no other requirement for the facilities constructed at the customer's request;

- The customer requests that service be furnished using a type of facility, or via a route, other than that which the Telephone Company would otherwise utilize in furnishing the requested service;

- The customer requests the construction of more facilities than are required to satisfy its order for service;

- The customer requests construction be expedited resulting in added cost to the Telephone Company;

- The customer requests that temporary facilities be constructed until permanent facilities are available.

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Private Line Transport Services. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

Example: If the customer specifies a NT Network Channel Code and a 2DC8-3 Channel Interface at the customer's premises, the following is requested:

NT = Metallic Channel with a Predefined Technical Specification Package (1)
2 = Number of physical wires at customer premises
DC = Facility interface for direct current or voltage
8 = Variable impedance level
3 = Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

11.1.1 GLOSSARY OF CHANNEL INTERFACE CODES AND OPTIONS

CODE	OPTION	DEFINITION
AB		accepts 20 Hz ringing signal at customer's point of termination
AC		accepts 20 Hz ringing signal at customer's end user's point of termination
CT		Centrex Tie Trunk Termination
DA		data stream in VF frequency band at customer's end user's point of termination
DB		data stream in VF frequency band at customer's point of termination
	10	VF for TG1 and TG2
	43	VF for 43 Telegraph Carrier type signals, TG1 and TG2

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.1 GLOSSARY OF CHANNEL INTERFACE CODES AND OPTIONS (Cont'd)

CODE	OPTION	DEFINITION
DC		direct current or voltage
	1	monitoring interface with services RC combination (McCulloh format)
	2	Telephone Company energized alarm channel
	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)
DD		DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE		DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination
DS		digital hierarchy interface
	15	1.544 Mbps (DS1) format per PUB 41451 plus D4
	15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
	15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
	15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
	15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
	15J	1.544 Mbps format per PUB 41451
	15K	1.544 Mbps format per PUB 41451 plus extended framing format
	15L	1.544 Mbps (DS1) with SF signaling
	27	274.176 Mbps (DS4)
	27L	274.176 Mbps (DS4) with SF signaling
	31	3.152 Mbps (DS1C)
	31L	3.152 Mbps (DS1C) with SF signaling
	44	44.736 Mbps (DS3)
	44L	44.736 Mbps (DS3) with SF signaling
	63	6.312 Mbps (DS2)
	63L	6.312 Mbps (DS2) with SF signaling

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.1 GLOSSARY OF CHANNEL INTERFACE CODES AND OPTIONS (Cont'd)

CODE	OPTION	DEFINITION
DU		Digital access interface
	24	2.4 kbps
	48	4.8 kbps
	56	56.0 kbps
	96	9.6 kbps
	A	1.544 Mbps format per PUB 41451
	B	1.544 Mbps format per PUB 41451 plus D4
	C	1.544 Mbps format per PUB 41451 plus extended farming format
DX		duplex signaling interface at customer's point of termination
DY		duplex signaling interface at customer's end user's point of termination
EA	E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead
EA	M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead
EB	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead
EB	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead
EC		Type III E&M signaling at customer POT
EX	A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions
EX	B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions
GO		ground start loop signaling-open end function by customer or customer's end user

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.1 GLOSSARY OF CHANNEL INTERFACE CODES AND OPTIONS (Cont'd)

CODE	OPTION	DEFINITION
GS		Ground start loop signaling – closed end function by customer or customer's end user
IA		E.I.A. (25 pin RS-232)
LA		end user loop start loop signaling – Type A OPS registered port open end.
LB		end user loop start loop signaling – Type B OPS registered port open end.
LC		end user loop start loop signaling – Type C OPS registered port open end.
LO		loop start loop signaling – open end function by customer or customer's end user.
LR		20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR.
LS		loop start loop signaling – closed end function by customer or customer's end user.
NO		no signaling interface, transmission only.
PG		program signaling transmission – no dc signaling.
	1	normal frequency from 50 to 15000 Hz.
	3	normal frequency from 200 to 3500 Hz.
	5	normal frequency from 100 to 5000 Hz.
	8	normal frequency from 50 to 8000 Hz.
PR		protective relaying [1].

[1] Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.1 GLOSSARY OF CHANNEL INTERFACE CODES AND OPTIONS (Cont'd)

CODE	OPTION	DEFINITION
RV	0	reverse battery signaling, one way operation, originate by customer
	T	reverse battery signaling, one way operation, terminate function by customer or customer's end user
SF		single frequency signaling with VF band at either customer POT or customer's end user POT
TF		telephotograph interface
TT		telegraph/teletypewriter interface at either customer POT or customer's end user POT
	2	20.0 milliamperes
	3	3.0 milliamperes
	6	62.5 milliamperes
TV		television interface
	1	combined (diplexed) video and one audio signal
	2	combined (diplexed) video and two audio signals
	5	video plus one (or two) audio 5 kHz signal(s) or
one		(or two) two-wire
	15	video plays one (or two) audio 15 kHz signal(s)

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES (Cont'd)

11.1.2 IMPEDANCE

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

VALUE (ohms)	CODE(S)
110	0
150	1
600	2
900	3[1]
135	5
75	6
124	7
Variable	8
100	9

[1] For those interface codes with a 4-wire transmission path at the customer designated POT, rather than a standard 900 ohm impedance the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES (Cont'd)

11.1.3 DIGITAL HIERARCHY CHANNEL INTERFACE CODES (4DS)

Customers selecting the multiplexed four-wire DSX-a or higher facility interface option at the customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS0 or 4DS6 plus the speed options indicated below:

INTERFACE CODE AND SPEED OPTION	NOMINAL BIT RATE (Mbps)	DIGITAL HIERARCHY LEVEL
4DS8-15	1.544	DS1
4DS8-31	3.152	DS1C
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

11.1.4 SERVICE DESIGNATOR/NETWORK CHANNEL CODE CONVERSION TABLE

The purpose of this table is to show the relationship between the service designator codes (e.g., VGC, MT2, etc.) and the network channel codes that are used for:

SERVICE DESIGNATOR CODE	NETWORK CHANNEL CODE
MTC	MQ
MT1	NT
MT2	NU
MT3	NV
TGC	NQ
TG1	NW
TG2	NY
VGC	LQ
VGW	SE
VG1	LB

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.4 SERVICE DESIGNATOR/NETWORK CHANNEL CODE CONVERSION TABLE (Cont'd)

SERVICE DESIGNATOR CODE	NETWORK CHANNEL CODE
VG2	LC
VG3	LD
VG4	LE
VG5	LF
VG6	LG
VG7	LH
VG8	LJ
VG9	LK
VG10	LN
VG11	LP
VG12	LR
APC	PQ
AP1	PE
AP2	PF
AP3	PJ
AP4	PK
TVC	TQ
TV1	TV
TV2	TW
DA1	XA
DA2	XB
DA3	XG
DA4	XH
HC0	HS
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES (Cont'd)

11.1.5 COMPATIBLE CHANNEL INTERFACES

The following tables show the channel interface codes (CIs) which are compatible:

A. Metallic

COMPATIBLE CIs	
2DC8-1	2DC8-2
2DC8-3	2DC8-3
4DS8-[1]	2DC8-1
4DS8-[1]	2DC8-2

[1] See 11.1.3 preceding for explanation.

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

B. Voice Grade

COMPATIBLE CIs		COMPATIBLE CIs		COMPATIBLE CIs	
2AB2	2AC2	2DB2	2DA2	2LR2	2LR2
2AB3	2AC2	2DB3	2DA2	2LR3	2LR2
2CT3	2DY2	2DX3	2LA2	2LS2	2LA2
	4DS8[1]		2LB2		2LB2
	4DX2		2LC2		2LC2
	4DX3		2LO3		
	4DY2		2LS2	2LS3	2LA2
	4EA2-E		2LS3		2LB2
	4EA2-M				2LC2
	4SF2	2GO2	2GS2		
	4SF3		2GS3	2NO2	2DA2
	6DX2				2NO2
	6DY2	2GO3	2GS2		
	6DY3		2GS3	2NO3	2NO2
	6EA2-E				2PR2
	6EA2-M	2LO2	2LS2		
	6EB2-E		2LS3	2TF3	2TF2
	6EB2-M				
	6EB3-E	2LO3	2LS2		
	8EB2-E		2LS3		
	8EB2-M				
	8EC2				
	9DY2				
	9DY3				
	9EA2				
	9EA3				

[1] See 11.1.3 preceding for explanation.

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES

B. Voice Grade (Cont'd)

	COMPATIBLE CIs
4AB2	2AC2 4AB2 4AC2 4SF2
4AB3	2AC2 4AC2 4SF2
4AC2	2AC2 4AC2

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES

B. Voice Grade (Cont'd)

COMPATIBLE CIs		COMPATIBLE CIs		COMPATIBLE CIs	
		4DS8-[1]	2AC2	4DS8-[1]	4DG2
			2DA2		4LR2
			2DY2		4LS2
			2GO2		4NO2
4DA2	4DA2		2GO3		4PR2
			2GS2		4RV2-T
4DB2	2DA2		2GS3		4SF2
	2NO2		2LA2		4SF3
	2PR2		2LB2		4TF2
	4DA2		2LC2		6DA2
	4DB2		2LO2		6DY2
	4NO2		2LO3		6DY3
	4PR2		2LR2		6EA2-E
	6DA2		2LS2		6EA2-M
			2LS3		6EB2-E
4DD3	2DE2		2NO2		6EB2-M
	4DE2		2PR2		6GS2
			2RV2-T		6LS2
			2TF2		8EB2-E
			4AC2		8EB2-M
			4DA2		9DY2
			4DE2		9DY3
			4DX2		9EA2
			4DX3		9EA3
			4DY2		
			4EA2-E		
			4EA2-M		

[1] See 11.1.3 preceding for explanation.

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES

B. Voice Grade (Cont'd)

COMPATIBLE CIs		COMPATIBLE CIs		COMPATIBLE CIs	
4DX2	2DY2	4DX2	8EB2-E	4DX3	6DY2
	2LA2		8EB2-M		6DY3
	2LB2		9DY2		6EA2-E
	2LC2		9DY3		6EA2-M
	2LO3		9EA2		6EB2-E
	2LS2		9EA3		6EB2-M
	2LS3				6LS2
	2RV2-T	4DX3	2DY2		8EB2-E
	4DX2		2LA2		8EB2-M
	4DY2		2LB2		9DY2
	4EA2-E		2LC2		9DY3
	4EA2-M		2LO3		9EA2
	4LS2		2LS2		9EA3
	4RV2-T		2LS3		
	4SF2		2RV2-T	4DY2	2DY2
	4SF3		4DX2		4DY2
	6DY2		4DX3		
	6DY3		4DY2		
	6EA2-E		4EA2-E		
	6EA2-M		4EA2-M		
	6EB2-E		4LS2		
	6EB2-M		4RV2-T		
	6LS2		4SF2		
			4SF3		

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES

B. Voice Grade (Cont'd)

COMPATIBLE CIs		COMPATIBLE CIs		COMPATIBLE CIs	
4EA2-E	2DY2	4EA3-E	2DY2	4GO2	2GO2
	4DY2		4DY2		2GO3
	4EA2-E		4EA2-E		2GS2
	4EA2-M		4EA2-M		2GS3
	4SF2		4SF2		4GS2
	6DY2		6DY2		4SF2
	6DY3		6DY3		6GS2
	6EB2-E		6EA2-E		
	6EB2-M		6EA2-M	4GO3	2GO2
	8EB2-E		6EB2-E		2GS2
	8EB2-M		6EB2-M		2GS3
	9DY2		8EB2-E		4GS2
	9DY3		9EB2-M		4SF2
			9DY2		6GS2
4EA2-M	2DY2		9DY3		
	4DY2		9EA2		
	4EA2-M		9EA3		
	4SF2				
	6DY2				
	6DY3				
	6EB2-E				
	6EB2-M				
	8EB2-E				
	8EB2-M				
	9DY2				
	9DY3				

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES

B. Voice Grade (Cont'd)

COMPATIBLE CIs		COMPATIBLE CIs		COMPATIBLE CIs	
4LO2	2LS2	4LS3	2LA2	4SF2	2LO3
	2LS3		2LB2		2LR2
	4LS2		2LC2		2LS2
	4SF2		2LO2		2LS3
	6LS2		2LO3		2RV2-T
			4SF2		4AC2
4LO3	2LS2				4DY2
	2LS3	4NO2	2DA2		4LS2
	4LS2		2DE2		4RV2-T
	4SF2		2NO2		4SF2
	6LS2		4DA2		6DY2
			4DE3		6DY3
4LR2	2LR2		4NO2		6GS2
	4LR2		6DA2		9DY2
	4SF2				9DY3
		4RV2-O	2RV2-T		
4LR3	2LR2		4RV2-T	4SF3	2DY2
	4LR2		4SF2		2GO3
	4SF2				2GS2
		4SF2	2AC2		2GS3
4LS2	2LA2		2DY2		2LA2
	2LB2		2GS2		2LB2
	2LC2		2GS3		2LC2
	2LO2		2LA2		2LO3
	2LO3		2BL2		2LR2
			2LC2		

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES

B. Voice Grade (Cont'd)

COMPATIBLE CIs		COMPATIBLE CIs		COMPATIBLE CIs	
4SF3	2LS2	6DA	4DA2	6DY3	2DY2
	2LS3		6DA2		4DY2
	2RV2-T				6DY2
	4DY2	6DX2	2DY2		6DY3
	4EA2-E		4DY2		
	4EA2-M		4EA2-E	6EA2-E	2AC2
	4GS2				
	4LR2		4EA2-M		2DY2
	4LS2		4SF2		2LA2
	4RV2-T		6DY2		2LB2
	4SF2		6DY3		2LC2
	4SF3		6EA2-E		2LO3
	6DY2		6EA2-M		2LS2
	6DY3		6EB2-E		2LS3
	6EB2-E		6EB2-M		2RV2-T
	6EB2-M		8EB2-E		4AC2
	6GS2		8EB2-M		4DY2
	6LS2		9DY2		4EA2-E
	9DY2		9DY3		4EA2-M
	9DY3		9EA2		4LS2
	9EA2		9EA3		4RV2-T
	9EA3				4SF2
		6DY2	2DY2		4SF3
4TF2	2TF2		4DY2		6DY2
	4TF2		6DY2		6DY3
					6EA2-E
					6EA2-M

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES

B. Voice Grade (Cont'd)

COMPATIBLE CIs		COMPATIBLE CIs		COMPATIBLE CIs	
6EA2-E	6EB2-E	6EA2-M	6DY2	6EB3-E	2DY2
	6EB2-M		6DY3		4DY2
	6LS2		6EA2-M		4EA2-E
	8EB2-E		6EB2-E		4EA2-M
	8EB2-M		6EB2-M		4SF2
	9DY2		6LS2		6DY2
	9DY3		8EB2-E		6DY3
			8EB2-M		6EA2-E
6EA2-M	2AC2		9DY2		6EA2-M
	2DY2		9DY3		8EB2-E
	2LA2				8EB2-M
	2LB2	6EB2-E	2DY2		9DY2
	2LC2		4DY2		9DY3
	2LO3		4SF2		9EA2
	2LS2		6DY2		9EA3
	2LS3		6DY3		
	2RV2-T		6EB2-E	6EX2-A	2GS2
	4AC2		6EB2-M		2GS3
	4DY2		9DY2		2LS2
	4EA2-E		9DY3		2LS3
	4EA2-M				4GS2
	4LS2	6EB2-M	2DY2		4LS2
	4RV2-T		4DY2		4SF2
	4SF2		4SF2		6GS2
	4SF3		6DY2		6LS2
			6DY3		
			6EB2-M		
			9DY2		
			9DY3		

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES

B. Voice Grade (Cont'd)

COMPATIBLE CIs		COMPATIBLE CIs		COMPATIBLE CIs	
6EX2-B	2GO3	8EB2-E	2AC2	8EB2-M	2AC2
	2LA2		2DY2		2DY2
	2LB2		2LA2		2LA2
	2LC2		2LB2		2LB2
	2LO2		2LC2		2LC2
	2LO3		2LO3		2LO3
	2LR2		2LS2		2LS2
	4LR2		2LS3		2LS3
	4SF2		2RV2-T		2RV2-T
			4AC2		4AC2
6GO2	2GO2		4DY2		4DY2
	2GS2		4LS2		4LS2
	2GS3		4RV2-T		4RV2-T
	4GS2		4SF2		4SF2
	4SF2		4SF3		4SF3
	6GS2		6DY2		6DY2
			6DY3		6DY3
6LO2	2LS2		6EB2-E		6EB2-E
	2LS3		6EB2-M		6EB2-M
	4LS2		6LS2		6LS2
	4SF2		8EB2-E		8EB2-M
	6LS2		8EB2-M		9DY2
			9DY2		9DY3
6LS2	2LA2		9DY3		
	2LB2				
	2LC2				
	2LO2				
	2LO3				
	4SF2				

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES

B. Voice Grade (Cont'd)

COMPATIBLE CIs		COMPATIBLE CIs		COMPATIBLE CIs	
8EC2	2DY2	9DY2	2DY2	9EA3	2DY2
	4DY2		4DY2		4DY2
	4EA2-E		6DY2		4EA2-E
	4EA2-M		6DY3		4EA2-M
	4SF2		9DY2		6DY2
	6DY2				6DY3
	6DY3	9DY3	2DY2		6EA2-E
	6EA2-E		4DY2		6EA2-M
	6EA2-M		6DY2		6EB2-E
	6EB2-E		6DY3		6EB2-M
	6EB2-M		9DY2		8EB2-E
	8EB2-E		9DY3		8EB2-M
	8EB2-M				9DY2
	9DY2	9EA2	2DY2		9DY3
	9DY3		4DY2		9EA3
	9EA2		4EA2-E		
	9EA3		4EA2-M		
			6DY2		
			6DY3		
			6EA2-E		
			6EA2-M		
			6EB2-E		
			6EB2-M		
			8EB2-E		
			8EB2-M		
			9DY2		
			9DY3		
			9EA2		
			9EA3		

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

C. Digital Data

COMPATIBLE CIs		COMPATIBLE CIs		COMPATIBLE CIs	
4DS8-15	4DS8-15[1]	4DU5-24	4DU5-24	6DU5-24	6DU5-24
	4DU5-24				
	4DU5-48	4DU5-48	4DU5-48	6DU5-48	6DU5-48
	4DU5-56				
	4DU5-96	4DU5-96	4DU5-96	6DU5-56	6DU5-56
	6DU5-24				
	6DU5-48	4DU8-56	4DU5-56	6DU5-96	6DU5-96
	6DU5-96				

[1] Available only as a cross connect of two digital channels at appropriate digital speeds at a Telephone Company hub.

11. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

11.1 PRIVATE LINE TRANSPORT SERVICES CHANNEL INTERFACE SPECIFICATIONS AND NETWORK CHANNEL CODES

11.1.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

D. High Capacity

COMPATIBLE CIs		COMPATIBLE CIs	
4DSO-63	4DSO-63 4DU8-A, B or C 6DU8-A, B or C	4DS8-15J	4DU8-A 6DU8-A
4DS6-27	4DS6-27 4DU8-A, B or C 6DU8-A, B or C	4DS8-15K	4DU8-B 4DU8-C 6DU8-B 6DU8-C
4DS6-44	4DS6-44 4DU8-A, B or C 6DU8-A, B or C	4DS8-31	4DS8-31 4DU8-A, B or C 6DU8-A, B or C
4DS8-15	4DS8-15[1] 4DU8-B 6DU8-8	4DU8-A, B or C	4DU8-A, B or C

[1] Available only as cross connect of two individual channels of 1.544 Mbps facilities at a Telephone Company hub.

12. RATES AND CHARGES

12. RATES AND CHARGES

12.1 PRIVATE LINE TRANSPORT SERVICES - GRANDFATHERED (C)

Effective August 15, 2024, Private Line DS-1 and DS-3 Services are grandfathered. New contracts or renewal of existing contracts will no longer be accepted for these services, effective immediately. Existing services are limited to circuits in service at existing locations. Customers with a contract may retain their Intrastate Private Line circuit on a month-to-month basis once the contract expires. (N) (N)

	MONTHLY RATES	NONRECURRING CHARGES
A. Channel Termination, per termination[1]		
1. Voice Grade Channel [4]		
- Two-wire	$26.59	$ 78.05
- Four-wire	48.37	78.05
2. Metallic Channel [4]		
- Two-wire	26.59	75.80
3. Digital Data [2] [4]		
Four-wire		
- 2.4 Kbps	12.79	386.00
- 4.8 Kbps	12.79	386.00
- 9.6 Kbps	12.79	386.00
- 56.0 Kbps	50.00	386.00
4. High Capacity	[3]	[3]
B. Channel Mileage		
1. Voice Grade and Metallic [4]		
- Per Mileage Section	30.80	None

[1] The Channel Termination rate includes non-chargeable Channel Interfaces as set forth in 7.1.4., preceding.

[2] Digital Services provided through a Node are offered only on a contractual basis.

[3] The rates and charges will be developed on an individual case basis.

[4] Effective November 9, 2021, Voice Grade, Metallic, and Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

12. RATES AND CHARGES

12.1 PRIVATE LINE TRANSPORT SERVICE – GRANDFATHERED (C)

B. Channel Mileage (Cont'd)

	MONTHLY RATES	NONRECURRING CHARGES
2. Digital Data[1]		
a. 2.4 Kbps	—	None
• 0 Miles (Band 1)		
- Fixed	$ 88.55	
• Over 0 to 23 Miles (Band 2)		
- Fixed	98.39	
- Per mile	.59	
• Over 23 (Band 3)		
- Fixed	226.30	
- Per mile	.98	
b. 4.8 Kbps	—	None
• 0 Miles (Band 1)		
- Fixed	88.55	
• Over 0 to 23 Miles (Band 2)		
- Fixed	98.39	
- Per mile	.69	
• Over 23 (Band 3)		
- Fixed	226.30	
- Per mile	1.43	

[1] Digital Services provided through a Node are offered only on a contractual basis.

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12. RATES AND CHARGES

12.1 PRIVATE LINE TRANSPORT SERVICE – GRANDFATHERED (C)

B. Channel Mileage

2. Digital Data[1] (Cont'd)

	MONTHLY RATES	NONRECURRING CHARGES
c. 9.6 Kbps	—	None
• 0 Miles (Band 1)		
- Fixed	$102.33	
• Over 0 to 23 Miles (Band 2)		
- Fixed	185.02	
- Per mile	.84	
• Over 23 (Band 3)		
- Fixed	348.30	
- Per mile	2.64	
d. 56 Kbps	—	None
• 0 Miles (Band 1)		
- Fixed	220.39	
• Over 0 to 23 Miles (Band 2)		
- Fixed	285.33	
- Per mile	3.15	
• Over 23 (Band 3)		
- Fixed	377.82	
- Per mile	7.63	

[1] Digital Services provided through a Node are offered only on a contractual basis.

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12. RATES AND CHARGES

12.1 PRIVATE LINE TRANSPORT SERVICE – GRANDFATHERED (C)

B. Channel Mileage (Cont'd)

	MONTHLY RATES	NONRECURRING CHARGES	
3. High Capacity - **GRANDFATHERED**	[1]	None	(C)
C. Private Line Access Surcharge			
• Per Voice Grade Equivalent	$25.00	None	
D. C-Type Conditioning	25.00	$38.00	

[1] These rates and charges will be developed on an individual case basis.

12. RATES AND CHARGES

12.2 MISCELLANEOUS SERVICES

	BASIC TIME, SCHEDULED WORKING HOURS	OVERTIME, OUTSIDE SCHEDULED WORKING HOURS
A. Additional Engineering Periods		
Per engineer, ½ hour or fraction thereof,	$10.00	$15.00
B. Additional Labor		
Per technician, ½ hour or fraction thereof,	10.00	15.00
C. Maintenance of Service		
Per technician, ½ hour or fraction thereof,	10.00	15.00
D. Programming Services		
Per programmer, ½ hour or fraction thereof,	28.87	40.04