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PRIVATE LINE SERVICE

A. PRIVATE LINE SERVICE

1. General

Private line service provides a line with or without access to the exchange system for communication between equipment furnished by the Company or the customer.

2. Regulations

Private line services are furnished subject to the availability of facilities and the requirements of local exchange and toll service. A private line may terminate in switching equipment which permits connection of the line to any of several stations on the same premises.

The Company may test and adjust the line as often as necessary at any time during regular business hours agreeable to the customer and the Company. No allowance for interruption of service is made for the time required to make such tests and adjustments.

The customer assumes all risk of errors, delays or accidents occurring in the operation of private line services, and also for any interruptions due to failure of power supply.

In the absence of gross negligence or willful misconduct, no liability shall attach to the Company for damages arising from the furnishing of private line service. If service is interrupted, a pro rata allowance at the tariff rate for the service shall be made for the time such interruption continues after notice and demand to the Company, provided such interruption is not caused by negligence or willful act of the customer or by failure of power supply or by testing and adjusting.

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A. PRIVATE LINE SERVICE (cont'd)

3. Time and Charges Reporting Service

Time and Charges Reporting Service is a private line service, which provides toll charge information to hotels, motels, and hospitals to facilitate guest and patient billing. The service includes a central office loop, a termination of the loop and receive-only equipment.

B. CONNECTIONS TO PRIVATE LINE SERVICES

1. General Provisions

a. General

Terminal equipment and communications systems provided by the customer may be connected to private line services furnished by the Company where such connections are made in accordance with the provisions of this Tariff. The term telecommunications services as used herein includes exchange service (except party line and coin services), Long Distance Message Telecommunications Service (LDMTS) and Wide Area Telecommunications Service (WATS).

The term Private Line Service as used herein denotes lines between Customer locations and central offices for control purposes.

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PRIVATE LINE SERVICE

B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

1. General Provisions (cont'd)
 - b. Responsibility of the Customer

The customer shall be responsible for the installation, operation and maintenance of any Customer-provided terminal equipment or communications system. No combinations of Customer-provided terminal equipment or communications systems shall require change in or alteration of the equipment or services of the Company, cause electrical hazards to Company personnel, damage to Company equipment, malfunction of Company billing equipment, or degradation of service to persons other than the user of the subject terminal equipment or communications system, his calling or called party. Upon notice from the Company that a Customer-provided terminal equipment or communications system is causing such hazard, damage, malfunction or degradation of service, the Customer shall make such changes as shall be necessary to remove or prevent such hazard, damage, malfunction or degradation of service.

- c. Responsibility of the Company
 1. Private line services are not represented as adapted to the use of Customer-provided terminal equipment or communications systems used with private line services.

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B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

1. General Provisions (cont'd)

c. Responsibility of the Company (cont'd)

1. (cont'd)

The responsibility of the Company shall be limited to the furnishing of service components suitable for private line services and for the maintenance and operation of service components in a manner proper for such services. Subject to this responsibility the Company shall not be responsible for (i) the through transmission of signals generated by the Customer-provided terminal equipment or communications systems or for the quality of, or defects in, such transmission, or (ii) the reception of signals by Customer-provided terminal equipment or communications systems, or (iii) address signaling where such signaling is performed by Customer-provided signaling equipment.

2. The Company will, at the Customer's request, provide information concerning interface parameters, including the number of ringers which may be connected to a particular line, needed to permit Customer-provided terminal equipment to operate in a manner compatible with the telecommunications network.

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B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

1. General Provisions (cont'd)

c. Responsibility of the Company (cont'd)

3. The Company may make changes in its telecommunications equipment, operations or procedures, where such action is consistent with the Federal Communication Commission's Rules and Regulations. If such changes can be reasonably expected to render any Customer's terminal equipment or communications systems incompatible with the telecommunications network or require modification or alteration of such Customer-provided terminal equipment or communications systems, or otherwise materially affect its use or performance, the Customer will be given adequate notice, in writing, to allow the Customer an opportunity to maintain uninterrupted service.

d. Recording of Two-Way Telephone Conversations

Private line services are not represented as adapted to the recording of two-way telephone conversations. When Customer-provided voice recording equipment is used with a private line service which is connected to telecommunications services, the provisions relating to Recording of Two-Way Telephone Conversations as set forth in this Tariff are applicable to such private line service.

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PRIVATE LINE SERVICE

B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

1. General Provisions (cont'd)

e. Violation of Regulations

When any Customer-provided terminal equipment or communications system is used with private line services in violation of any of the provisions in this Tariff, the Company will take such immediate action, as necessary, including disconnection of the service, for the protection of the telecommunications network and Company employees, and will promptly notify the Customer of the violation. The Customer shall discontinue such use of the terminal equipment or communications system or correct the violation and shall confirm in writing to the Company within 10 days following the receipt of written notice from the Company, that such use has ceased or that the violation has been corrected. Failure of the Customer to discontinue such use or to correct the violation and to give the required written confirmation to the Company within the time stated above shall result in suspension of the Customer's service until such time as the Customer complies with the provisions of this Tariff.

2. Connections of Registered Equipment

Customer-provided terminal equipment, protective circuitry, and communications systems that are registered may be connected to those private line service following, subject to the regulations in this Tariff.

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PRIVATE LINE SERVICE

B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

2. Connections of Registered Equipment (cont'd)

- a. The connection may be made only at the Customer's premises to voice grade private line service that present a two wire or four wire loop signaling interface for such connection under the following conditions:
 1. Customer-provided registered terminal equipment, registered protective circuitry, and registered key telephone systems may be connected to the station end of private line services furnished in connection with off-premises stations.
 2. Customer-provided registered PBX Systems may be connected, as a trunk termination, to the station end of private line services furnished in connection with off-premises stations.
 3. Customer-provided registered terminal equipment, registered protective circuitry, and registered key telephone systems may be connected to CCSA or EOSCS access lines.
- b. The connection of Customer-provided registered terminal equipment and registered PBX systems may be made only at the Customer's premises to a voice grade private line service (including appropriate Group Channel equivalents) that presents an interface for either 2 or 4 wire transmission, with separate E and M signaling leads conventionally known as Type I (battery/ground) or Type II (contact closure type). Such E and M signaling leads are that terminal equipment or PBX leads (other than voice or data communications leads) used for the purpose of transferring supervisory or address signals across the interface.

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B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

2. Connections of Registered Equipment (cont'd)

- c. The connection of Customer-provided registered terminal equipment and registered PBX systems may be made only at the Customer's premises to a voice grade private line service furnished to provide indications of message registration of outgoing calls or automatic identification of outward dialing (AIOD) to such Customer-provided equipment or systems.

In addition, Customers who intend to install, perform additions to, or make rearrangements of AIOD functions shall give advance notice to the Company in accordance with the procedures specified by the Federal Communications Commission's Rules and Regulations.

3. Connections of Customer-Provided Terminal Equipment and Communications Systems Not Subject to Part 68 of the Federal Communications Commission's Rules and Regulations

a. General

Connecting arrangements are not required and minimum protection criteria are not applicable where Customer-provided terminal equipment or communications systems are connected with the following channels when such channels are used for the types of transmission specified herein due to the nature of the service provided and/or for the types of channels and equipment used.

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B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

3. Connections of Customer-Provided Terminal Equipment ... Not Subject to Part 68 (cont'd)
 - a. General (cont'd)
 1. Private lines and leased channels for teletypewriter, telewriter or other printer communication
 2. Channels for facsimile transmission
 3. Channels for Remote Operation of Mobile Radiotelephone Systems
 4. Channels for Remote Metering, Supervisory Control and Alarm signaling purposes

Except as otherwise provided in this Tariff, Customer-provided terminal equipment and communications systems may be electrically connected to private line services in accordance with this section.

1. When the Customer-provided terminal equipment or communications system is connected with private line service furnished by the Company and such private line service is not arranged for connection to telecommunications services, such connections shall be made to an interface provided by the Company.
2. When the Customer-provided terminal equipment or communications system is connected with private line service furnished by the Company and such private line service is arranged for connection to telecommunications services:

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B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

3. Connections of Customer-Provided Terminal Equipment ... Not Subject to Part 68 (cont'd)
 - a. General... (cont'd)
 2. Customer-provided terminal equipment ... (cont'd)
 - (i) Such connection shall be made through a connecting arrangement as provided in this Section, and
 - (ii) The connection shall be such that the functions of network control signaling (except Customer-provided tone type address signaling through a Company-provided connecting arrangement) are performed by equipment furnished by the Company, except as provided in d. following.
 3. Customer-provided terminal equipment or communications systems connected pursuant to (a) or (b) preceding, must comply with minimum protection criteria.

b. Data Terminal Equipment

Customer-provided data terminal equipment (including telephotograph equipment) may be connected at the Customer's premises to private line service through a network control signaling unit and a data access arrangement provided by the Company in accordance with the following when such private line service is arranged as provided above.

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B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

3. Connections of Customer-Provided Terminal Equipment ... Not Subject to Part 68 (cont'd)
 - c. Voice Terminal Equipment
 1. Customer-provided voice terminal equipment may be connected at the Customer's premises to private line service in accordance with the following when such private line service is arranged as provided in this Tariff.
 - a. The connection shall be made through a network control signaling unit and a connecting arrangement furnished by the Company.
 - b. Where a data access arrangement is furnished in connection with Customer-provided terminal equipment and such terminal equipment is used for both voice and data communication, the data access arrangement may be used to connect the Customer-provided terminal equipment for voice communication.
 2. Attested Equipment and Conforming Answering Devices may be used with private line service subject to the provisions of this Section.

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B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

3. Connections of Customer-Provided Terminal Equipment ... Not Subject to Part 68 (cont'd)

d. Communications Systems

Customer-provided communications systems not subject to the Federal Communications Commission's Rules and Regulations may be connected with private line services on a direct electrical basis at the Customer's premises or at a location provided by the Customer, provided that:

1. Minimum protection criteria set forth in this Tariff are complied with.
2. The connection is made through a Service Terminating Arrangement furnished by the Company.

The Service Terminating Arrangement provides a clearly delineated interface which facilitates the design, isolation and testing of the private line service. Where a protective connecting arrangement is required, the Service Terminating Arrangement is provided as part of the protective connecting arrangement.

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B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

3. Connections of Customer-Provided Terminal Equipment ... Not Subject to Part 68 (cont'd)

d. Communications Systems (cont'd)

3. Where the private line service is arranged for connection to the common user switching equipment located in a Company central office, the connection must be:

a. Through switching equipment, or

b. Directly to the Company-provided connecting arrangement if the Customer-provided communications system is arranged to promptly return private line service to an idle (on-hook) state if the system fails. In addition, when the system fails, the Customer shall notify the Company.

e. Accessories

Accessories provided by a customer may be used with private line services provided that such accessories comply with the provisions of this Tariff.

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B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

3. Connections of Customer-Provided Terminal Equipment ... Not Subject to Part 68 (cont'd)
 - f. Minimum Protection Criteria for Electrical, Acoustic or Inductive Connections
 1. Since private line services utilize Company channels and equipment in common with other services it is necessary in order to prevent excessive noise and crosstalk that the power of the signal applied to the Company private line service is individually engineered, a single valued limit for all applications cannot be specified. Therefore, the power of the signal in the band above 300 Hertz which may be applied by the customer-provided equipment to the interface will be specified by the Company for each application to be consistent with the signal power allowed on the telecommunications network.
 2. To protect other services, it is necessary that the signal which is applied by the Customer-provided equipment to the Company interface located on the Customer's premises meet the following limits:
 - a. The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18dB below the power of the signal as specified in (1) above.
 - b. The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16dB below one milliwatt.
 - c. The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24dB below one milliwatt.
 - d. The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36dB below one milliwatt.
 - e. The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.

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B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

3. Connections of Customer-Provided Terminal Equipment ... Not Subject to Part 68 (cont'd)
 - f. Minimum Protection Criteria for Electrical, Acoustic or Inductive Connections
 3. Where there is connection to telecommunications services, to prevent the interruption or disconnection of a call or interference with network control signaling, it is necessary that the signal applied by the customer-provided equipment at no time have energy solely in the 2450 to 2750 Hertz band and it must not exceed the power present at the same time in the 800 to 2450 Hertz band.
 - g. Acoustic or Inductive Connections
 1. General
 - a. Customer-provided voice or data terminal equipment (including telephotograph equipment) may be acoustically or inductively connected at the Customer's premises to a private line service provided the acoustic or inductive connection is made externally to the network control signaling unit when such unit is provided by the Company.
 - b. Customer-provided communications systems may be acoustically or inductively connected with private line service as specified in i. following, provided the acoustic or inductive connection is made externally to the network control signaling unit when such unit is provided by the Company.

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PRIVATE LINE SERVICE

B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

3. Connections of Customer-Provided Terminal Equipment ... Not Subject to Part 68 (cont'd)

g. Acoustic or Inductive Connections

1. General (cont'd)

c. Customer-provided tone-type address signaling is permitted through such connections, however, the services of the Company are not designed for such use and the Company makes no representation as to the reliability of address signaling which is performed in such manner.

d. Acoustic or Inductive connecting must meet protection criteria as specified in f. preceding.

4. Channel Derivation Devices

Customer-provided channel derivation devices, which are used to create additional channels, may be connected to private line service subject to the provisions in this Section.

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PRIVATE LINE SERVICE

B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

5. Equipment-to-Equipment Connections

- a. Equipment-to-equipment connections will only be permitted with Company-provided host terminal equipment and communications systems when:
 1. The supplier of the added equipment insures compliance of the combined host and added equipment, including wiring, with the Federal Communications Commission's Rules and Regulations and this Section.
 2. Connection of the added equipment to the host is made through a Company-provided interface which:
 - a. Provides all points of connection between the added equipment and wiring internal to host equipment housings.
 - b. Permits reasonable trouble isolation, as determined by the Company.
 - c. Is otherwise acceptable to the Company for the specific connection to be accomplished.
 3. Such permission does not necessitate disclosure by the Company of information which is proprietary in nature.
 4. The customer subscribing to the host notifies the Company of the added equipment and the host terminal equipment or communications system to which such added equipment is to be connected in advance of such connection, and agrees to notify the Company when such added equipment is permanently disconnected.

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PRIVATE LINE SERVICE

B. CONNECTIONS TO PRIVATE LINE SERVICES (cont'd)

5. Equipment-to-Equipment Connections (cont'd)

- b. The Company reserves the right to not allow, or to require disconnection of, an equipment-to-equipment connection to any Company-provided host terminal equipment or communications system for reasons including, but not limited to:
 - 1. Incompatibility of a specific equipment-to-equipment connection with the design and/or functioning of a specific host or impairment in the performance of a specific host following such connection.
 - 2. Inability to accommodate an equipment-to-equipment connection without manufacturing or other modifications to the host, which, in the opinion of the Company, are unwarranted.
- c. Rates and charges for equipment-to-equipment connections to Company-provided host terminal equipment and communications systems will be based on the costs attributable to the specific connection and/or disconnection involved.
- d. The customer subscribing to the host will be responsible for the payment of all applicable charges for visits by a Company employee to the customer's premises in response to a service difficulty or trouble report resulting from the addition of customer-provided equipment to Company-provided host terminal equipment or communications systems.

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PRIVATE LINE SERVICE

C. LEASED CHANNELS

1. General

A leased channel is an electrical path used for connection of equipment by the customer to facilities furnished by the customer or the Company for a specific purpose.

2. Regulations

- a. Leased channels are furnished subject to the availability of facilities and the requirements of local exchange and toll service and are derived in such manner as the Company may elect.
- b. Leased channels may not be connected with exchange or toll or private line services furnished by the Company except as otherwise provided in this Section.
- c. Except as specifically provided herein, the Company will furnish all channel apparatus and the customer will furnish all station apparatus and associated power facilities. All equipment used by customers in connection with leased channels is subject to the approval of the Company and must operate at a line signaling speed and with line transmission characteristics within the range of those associated with the type of channel furnished.
- d. If, in the judgment of the Company, additional protective equipment is required, such equipment shall be provided by the customer or by the Company at rates and charges based on the costs to provide.

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PRIVATE LINE SERVICE

C. LEASED CHANNELS

2. Regulations (cont'd)

- e. The customer indemnifies and saves the Company harmless against claims for libel, slander, or the infringement of copyright arising from or in connection with material or subject matter transmitted over the leased channel: against claims for the infringement of patents arising from combining with, or using in connection with, leased channels of the Company and systems of the customer, and against all other claims arising out of any act or omission of the customer in connection with leased channels provided by the Company.
- f. If service is interrupted, a pro-rata allowance at the Tariff rate for the leased channel shall be made for the time such interruption continues after notice and demand to the Company provided such interruption is not caused by negligence or willful act of the customer or by failure of power supply or by testing adjusting.
- g. The Company may terminate leased channels, without notice, for any of the following reasons:
 - 1. Upon objection to their continuance made by or on behalf of any governmental authority.
 - 2. If, in the judgment of the Company, any use of the facilities by the customer tends to injuriously affect the efficiency of the Company's plant, property, or service.
 - 3. Upon the use of any of the facilities for the purpose of performing any service, which the Company may now or hereafter perform.

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PRIVATE LINE SERVICE

C. LEASED CHANNELS

2. Regulations (cont'd)

- h. Leased channels may be arranged to supplement circuits owned and maintained by the customer, where the circuit owned by the customer is located on his property or right-of-way as in the case of a railroad, or where the customer has, under proper State or Municipal franchise, the right to maintain and use such circuits for the desired purpose. Leased channels are not furnished where they are to be used for any utility service not properly authorized by the State or Municipality affected.
- i. The customer may not create additional channels from the facilities furnished by the Company, except as otherwise provided in this section. For the purposes of the regulation, additional channels are defined as those created outside the normal voice bandwidth of 300-3000 Hz. Multiplexing by time division or frequency division methods is permitted within that 300-3000 Hz spectrum only and shall be for the subscriber's own use. The Company makes no representation as to the suitability of the channels provided by it for such multiplexing by such methods.
- j. The Company may test and adjust the leased channel as often as necessary at any time during regular business hours agreeable to the subscriber and the Company. No allowance for interruption of service is made for the time required to make tests and adjustments. The customer shall provide his own means of ascertaining any inoperative condition of the leased channel when prompt detection of such conditions is required for the customer's use.

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PRIVATE LINE SERVICE

C. LEASED CHANNELS

3. Maintenance Charge

The customer to Leased Channel shall be responsible for the payment of charge for visits by the Company to the customer's premises where a service difficulty or trouble report results from customer owned and maintained equipment connected to leased channels. The level of the charge will be determined on the basis of the time spent on the customer's premises.

Service difficulties that can be isolated by the Company testboard in customer owned and maintained equipment, without dispatching a service man, will be charged a Maintenance Service Charge as listed in Section 3, Group 6.

D. VOICE CHANNELS FOR USE WITH CUSTOMER OWNED AND MAINTAINED EQUIPMENT

In addition to the general regulations applicable to Leased channels set forth in C of this Section, the following regulations apply to voice channels for use with Customer Owned and Maintained Equipment.

These channels are furnished between different premises of the same or different subscribers and may be used by the customer for the purpose of connecting customer owned and maintained equipment to other customer owned and maintained equipment or to connect such equipment to facilities furnished by the Company. Leased channels are not represented as adapted for use with customer owned and maintained equipment and the responsibility of the Company shall be limited to the furnishing of facilities and the maintenance of such facilities. The Company shall not be responsible for through transmission of signals generated by customer owned and maintained equipment or the reception of signals by customer owned and maintained equipment

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D. VOICE CHANNELS FOR USE WITH CUSTOMER OWNED AND MAINTAINED EQUIPMENT (cont'd)

Since leased channels utilize Company facilities in common with other services it is necessary in order to prevent excessive noise and cross talk that the power of the signal applied to these channels be limited. Therefore, the power of the signal applied by customer owned and maintained equipment will be specified by the Company for each application to be consistent with the signal power allowed on the exchange network.

Leased channels may be connected by the customer with other voice channels furnished to the same customer by the Company for use with customer-owned intercommunicating equipment.

Connection of customer owned and maintained equipment with Company channels specified above shall be made only through terminal equipment furnished by the Company at each terminating point of such channels, based on the Company's costs for the required terminal equipment. Leased channels may be connected at a PBX or other switching arrangement to a local central office line to form a through connection where facility conditions permit. Such connections shall be through switching equipment provided by the Company or the customer in accordance with regulations contained herein.

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PRIVATE LINE SERVICE

E. SERVICE FOR TRANSMISSION AT THE SPEED OF 1.544 MEGABITS PER SECOND

1. General

- a. 1.544 Mbps Service is a service for the transmission of digital signals using digital transmission facilities.
- b. 1.544 Mbps Service provides for the simultaneous two-way transmission of isochronous digital signals at speeds of 1.544 Mbps between customer locations.
- c. 1.544 Mbps Service may be terminated at a customer's location with an appropriate charge for conversion of the digital signal to its equivalent 24 channels.
- d. To ensure satisfactory operation, the terminal equipment provided by the customer must be compatible with the 1.544 Mbps facility provided by the Company.
- e. Unless specified below, the regulations for 1.544 Mbps specified herein apply in addition to the regulations set forth in this Section.
- f. The rates specified for 1.544 Mbps Service contemplate the provision of a digital quality facility over existing interoffice carrier equipment and/or exchange cable facilities compatible with this service. If such equipment, facilities or changes or existing facilities are required to provide 1.544 Mbps Service a charge based on the cost incurred may apply in addition to the rates for the service.

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PRIVATE LINE SERVICE

E. SERVICE FOR TRANSMISSION AT THE SPEED OF 1.544 MEGABITS PER SECOND (cont'd)

2. Regulations

a. Description of Service

Service is furnished for the simultaneous two-way transmission of isochronous digital signals at a speed of 1.544 Mbps between two points.

Service is furnished for duplex operation on a point-to-point basis only for a minimum initial service period of 36 months.

The design, maintenance and operation of 1.544 Mbps Service contemplates communications originating or terminating at customer locations. While connections to 1.544 Mbps Service of communications systems provided by others may be made on a permissive basis, the Company does not represent its 1.544 Mbps Service as adapted for such connections, and shall not be responsible for the through transmission of signals, or the quality of such transmission on such connections.

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PRIVATE LINE SERVICE

E. SERVICE FOR TRANSMISSION AT THE SPEED OF 1.544 MEGABITS PER
SECOND (cont'd)

2. Regulations (cont'd)

b. Method of Applying Rates

Systems furnished between serving central offices will be charged at rates based on airline distance between the serving central offices.

The minimum period of service is 36 months. The customer is responsible for payment of charges for the minimum period of service. Suspension of service is not allowed.

A digital loop is furnished between a central office and the customer's premises. The rate is based on a fixed charge and the rate for the airline distance measured between the central office and the customer's premises. Normally, installation at the customer's premises would involve termination of the Company's service at the closest possible access point to the central office. Any additional material or installation required from this closest possible point to the actual terminating point would be charged to the customer at actual cost.

Channel Conversion may be provided by the customer. If the Company provides channel conversion, the rate is a monthly charge.

The customer may elect to have the CSU provided by the Company. If the customer elects this option, a CSU is required per 1.544 Mbps system. The rate for a CSU is a monthly charge and listed in Section 3, Group 8.

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PRIVATE LINE SERVICE

E. SERVICE FOR TRANSMISSION AT THE SPEED OF 1.544 MEGABITS PER SECOND (cont'd)

2. Regulations (cont'd)

c. Connections

Customer-provided terminal equipment, customer-provided channel conversion equipment, customer-provided derivation equipment and customer-provided communications systems may be connected to 1.544 Mbps Service when such connection is made in accordance with the provisions which follow.

The responsibility of the Company shall be limited to the furnishing of service to that point on the customer's premises where provision is made for the connection of customer-provided equipment. The customer is responsible for testing its equipment or facilities to insure that when they are connected with 1.544 Mbps Service such equipment or facilities are operating properly, and further that the cause of any service difficulty reported by the customer to the Company results from the operation of equipment and facilities provided by the Company.

The customer shall be responsible for payment of a maintenance service charge for visits by the Company to the premises of the customer where the service difficulty or trouble report results from the use of equipment or facilities provided by the customer.

Customer-provided terminal equipment, customer-provided channel conversion equipment, customer-provided derivation equipment and customer-provided communications systems may be connected at the premises of the customer to 1.544 Mbps Service.

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PRIVATE LINE SERVICE

E. SERVICE FOR TRANSMISSION AT THE SPEED OF 1.544 MEGABITS PER SECOND (cont'd)

2. Regulations (cont'd)

c. Connections

Customer-provided terminal equipment, customer-provided channel conversion equipment, customer-provided derivation equipment and customer-provided communications systems may be connected to 1.544 Mbps Service when such connection is made in accordance with the provisions which follow.

The responsibility of the Company shall be limited to the furnishing of service to that point on the customer's premises where provision is made for the connection of customer-provided equipment. The customer is responsible for testing its equipment or facilities to insure that when they are connected with 1.544 Mbps Service such equipment or facilities are operating properly, and further that the cause of any service difficulty reported by the customer to the Company results from the operation of equipment and facilities provided by the Company.

The customer shall be responsible for payment of a maintenance service charge for visits by the Company to the premises of the customer where the service difficulty or trouble report results from the use of equipment or facilities provided by the customer.

Customer-provided terminal equipment, customer-provided channel conversion equipment, customer-provided derivation equipment and customer-provided communications systems may be connected at the premises of the customer to 1.544 Mbps Service.

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PRIVATE LINE SERVICE

E. SERVICE FOR TRANSMISSION AT THE SPEED OF 1.544 MEGABITS PER SECOND (cont'd)

2. Regulations (cont'd)

c. Connections (cont'd)

The customer, by use of its own derivation equipment, may create digital bit streams from a 1.544 Mbps Service and such equipment may be connected for transmission of such bit streams at the premises of the customer to 1.544 Mbps Service furnished under the rates and regulations of this Company's Tariff.

Accessories provided by a customer may be used in conjunction with 1.544 Mbps Service provided that such accessories comply with the provisions of (d) following.

d. Responsibility of the Customer

Where 1.544 Mbps Service is available under this tariff for use in connection with terminal equipment or communications systems provided by the customer, the operating characteristics of such equipment or systems shall be such as not to interfere with any of the services offered by the Company. Such use is subject to the further provisions that the equipment provided by a customer does not endanger the safety of Company employees or the public; does not damage, require change in or alteration of the equipment or other facilities of the Company; does not interfere with the proper functioning of such equipment or facilities; does not impair the operation of the Company's facilities or otherwise injure the public in its use of the Company services. Upon notice from the Company that the equipment provided by a customer is causing or is likely to cause such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.

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PRIVATE LINE SERVICE

E. SERVICE FOR TRANSMISSION AT THE SPEED OF 1.544 MEGABITS PER SECOND (cont'd)

2. Regulations (cont'd)

d. Responsibility of the Customer (cont'd)

Where a customer elects to connect a customer-provided communications system to 1.544 Mbps Service the customer shall be responsible for:

1. Compatibility of the connected communications system and the 1.544 Mbps Service.
2. Testing, sectionalization, and clearance of trouble conditions or service difficulties on any communications system, which is connected to 1.544 Mbps Service.
3. A Channel Service Unit or functional equivalent is required at each terminating point.
4. If a customer elects to provide the CSU, the customer may not disconnect this equipment without prior written consent of the Company.
5. If the customer disconnects the equipment without this consent or fails to provide the equipment completely, the Company has the option of discontinuing service. All monthly charges will continue to apply.
6. If the customer provides the CSU, the customer provided equipment must perform such functions as: proper termination of the facility, regeneration, signal shaping, and remote loop back.

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PRIVATE LINE SERVICE

E. SERVICE FOR TRANSMISSION AT THE SPEED OF 1.544 MEGABITS PER
SECOND (cont'd)

2. Regulations (cont'd)

e. Responsibility of the Company

1. The Company shall not be responsible for installation, operation, or maintenance of any terminal equipment or communications systems provided by a customer. 1.544 Mbps Service is not represented as adapted to the use of such equipment or system and where such equipment or system is connected to Company facilities the responsibility of the Company shall be limited to the furnishing of facilities and operation of such facilities in a manner proper for such digital service. Therefore, the Company shall not be responsible for the through transmission of signals generated by such equipment or system, or for the quality of, or defects in, such transmission. Further, the Company shall not be responsible for the reception of signals by such equipment or system.
2. The Company shall not be responsible to the customer if changes in any of the facilities, operations or procedures of the Company utilized in the provision of 1.544 Mbps Service render any facilities provided by a customer obsolete or require modification or alteration of such equipment or system or otherwise affect its use or performance.
3. The Company undertakes to maintain and repair the facilities, which it furnishes. The customer may not rearrange, disconnect, remove, or attempt to repair any equipment installed by the Company without prior written consent of the Company.

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PRIVATE LINE SERVICE

F. DIGITAL DATA SERVICE

1. General

- a. Digital Data Service is a dedicated, point-to-point data transmission service designed to transmit data in digital form, end-to-end over digital facilities routed through a central office node.
- b. This service is available where appropriate digital facilities are available as determined by the Company.
- c. The Company will determine the transmission medium used to provide this service.
- d. The customer shall furnish the Customer Service Unit/Digital Service Unit (CSU/DSU) on the customer's premises.

2. Regulations

a. Description of Service

Digital Data Service is capable of the simultaneous two-way transmission of digital signals at synchronous speeds of 2.4, 4.8, 9.6, or 56.0 Kilobits per second (Kbps) between two points or multi-points where there are appropriate bridging capabilities.

1. The CSU/DSU provided by the customer is required at a customer's or authorized user's premises to perform such functions as:
 - i. Proper termination of the service
 - ii. Regeneration
 - iii. Signal shaping
 - iv. Remote loop-back

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PRIVATE LINE SERVICE

F. DIGITAL DATA SERVICE (cont'd)

2. Regulations (cont'd)

b. Method of Applying Rates

For each customer premise termination, the following rate elements may apply:

1. A local channel
2. A central office termination
3. An interoffice channel
4. A node termination

Digital local channels will be charged at rates based on the airline distance from the designated serving central office to the customer's premises.

Digital interoffice channels will be charged at rates based on the airline distance from the designated serving central office to the Company's node.

The length of the digital local channel is restricted by the speed of the transmission desired. Many parameters affect the limitation and the Company reserves the right to deviate from the typical limitation.

The typical limitations are as follows:

	<u>Airline Miles</u>
- 2.4 Kbps	8.6
- 4.8 Kbps	6.5
- 9.6 Kbps	4.9
- 56.0 Kbps	2.6

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PRIVATE LINE SERVICE

F. DIGITAL DATA SERVICE

2. Regulations (cont'd)

c. Connections

The customer, upon request, shall furnish such information as may be required to permit the Company to design and maintain the Digital Data Service it offers and to assure that the service arrangement is in accordance with the tariff regulations contained herein.

d. Payment Arrangements

1. The minimum period for which service is furnished and for which charges are applicable is one month.
2. Suspension of service is not allowed.

e. Allowance for Interruptions

Allowance for interruptions will be in accordance with the provisions set for in Section 1.

3. Rates and Charges

- a. Service Connection Charges as found in the concurring Company's tariff, Section 3 Group 2, may apply. A one time service connection charge as found in the concurring Company's tariff, Section 3 Group 8, may also apply.
- b. Monthly recurring charges will apply as listed in the concurring Company's tariff, Section 3 Group 8.

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PRIVATE LINE SERVICE

G. SWITCHED 56 KBPS SERVICE

1. General

Switched 56 Kbps Service uses the public switched network for data transmission. This is a digital end-to-end switched full duplex service, available either at low or high speed.

Switched 56 Kbps Service customers access the service by means of a dedicated access line. A customer may access other Switched 56 Kbps Service or Switched 56 Kbps Service-like customers only on a two-point connection basis. There are no voice capabilities over the facilities used for this service.

2. Regulations

Switched 56 Kbps Service requires a digital subscriber loop facility. Where only loaded facilities are available, the Company will, at the customer's request, deload the facilities (when technically feasible) at charges based on cost. The Company cannot guarantee the quality of a deloaded circuit. An access line provisioned by an interconnector must conform to the same facilities criteria.

- a. All other applicable rules and regulations, including those specified in Section 1 of this tariff, apply.
- b. Provision of this service is subject to the availability of facilities and does not create an obligation on the Company to construct facilities especially for this service. If the Company agrees to construct facilities to provide the service, construction charge regulations as listed in this tariff will apply.

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PRIVATE LINE SERVICE

G. SWITCHED 56 KBPS SERVICE (cont'd)

2. Regulations (cont'd)

- c. A customer premises data unit must be compatible with the Company's central office Switched 56 Kbps facilities, and is subject to the limitations specified in BELLCORE Technical Reference TR-EOP-000277 or other Company-specified technical requirements. The customer premises data unit is not a part of this offering and must be secured separately by the customer.
- d. Switched 56 Kbps Service, via a dedicated access line, is available at low speed asynchronous 300 bps to 19.2 kbp/s, low speed synchronous 1.2 kbp/s to 19.2 kbp/s, or high speed synchronous 48 kbp/s or 56 kbp/s.
- e. Monthly rates do not include detailed call billing.
- f. Customers not served directly by a suitably equipped central office will require an interoffice channel from their serving wire center to a switched 56KBPS equipped central office within the LATA. The interoffice channel will be billed to the customer under mileage rates for a voice grade circuit. The interoffice mileage rates applicable are found in Section 3, Group 8 of the concurring Company's tariff.
- g. The minimum period for which service is furnished and for which charges are applicable is one month unless otherwise stated by the concurring Company.
- h. Temporary or voluntary suspension of service arrangement is not provided with this service.

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PRIVATE LINE SERVICE

G. SWITCHED 56 KBPS SERVICE (cont'd)

3. Rates and Charges

- a. Service connection charges apply as found in the concurring Company's tariff, Section 3, Group 2. A one-time System Establishment Charge will also apply as listed in the concurring Company's tariff, Section 3, Group 8.
- b. Monthly recurring charges will apply as listed in the concurring Company's tariff, Section 3, Group 8.
- c. The Federal Subscriber Line Charge applies on a per line basis.

H. INTEGRATED SERVICES DIGITAL NETWORK

1. General

Integrated Services Digital Network (ISDN) describes the end-to-end digital telecommunications network architecture which provides digital termination capabilities to the customers premises for the simultaneous access, transmission and switching of voice, data and image traffic services. These functions are provided via channelized transport facilities. This is an exchange service available only from suitably equipped digital central offices. The ISDN architecture consists of digital switching systems, which connect Basic Rate Interface (BRI) lines to their serving central office.

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PRIVATE LINE SERVICE

H. INTEGRATED SERVICES DIGITAL NETWORK (cont'd)

1. General (cont'd)

BRI is an optional service arrangement, which can be used in conjunction with a customer's individual business or residential line service. BRI uses the ISDN architecture to provide the customer with the capabilities of simultaneous access, transmission, and switching of voice, data, and image services via channelized transport. In addition, BRI provides the customer with access to Circuit Switched Voice Service, Circuit Switched Data Service, and Packet Switched Data Service.

Primary Rate Interface (PRI) is a set of 24 channels, which includes 23 B channels and 1 D channel on a 64 kbps digital line. In PRI, the D channel is used for call control and packet-data is not supported.

2. Regulations

a. Service Description

1. Digital Service Line - Provides digital Central Office termination that has the capability to support digital transmission of voice and data to the customer's premises. This service element is required for basic ISDN or any optional ISDN feature.
2. Basic Service Capabilities - Provide basic voice and data services, which can be combined and transmitted on a single access line. The access line provides a combination of two B channels and one D channel. Each B channel is capable of transmitting up to 64 kbps for Circuit Switched Voice, Circuit Switched Data, or High Speed Packet Switched Data. The D channel is a 16 kbps channel and is designed for signaling as well as transmitting packet switched data at speeds up to 9.6 kbps. The following basic services are available:

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PRIVATE LINE SERVICE

H. INTEGRATED SERVICES DIGITAL NETWORK (cont'd)

2. Regulations (cont'd)

a. Service Description (cont'd)

2. Basic Service Capabilities (cont'd)

- a. Circuit Switched Voice - 64 kbps circuit mode used for voice information calls.
 - b. Circuit Switched Data - 64 kbps Circuit mode used for data information calls.
 - c. Alternate Circuit Switched Voice/Circuit Switched Data - Can be used alternately for voice information or data information calls.
 - d. Low Speed Packet Switched Data - virtual call and permanent virtual circuit bearer service capability on the D channel at speeds up to 9.6 kbps.
 - e. High Speed Packet Switched Data - virtual call and permanent virtual circuit bearer service capability on the B channel at speeds up to 64 kbps.
3. Optional Features - Optional features are dependent on the software and hardware manufacturer for ISDN service. For company specific optional features, see Section 3, Group 8 of the concurring Company's tariff.

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PRIVATE LINE SERVICE

H. INTEGRATED SERVICES DIGITAL NETWORK (cont'd)

2. Regulations (cont'd)

b. Service Applications and Restrictions

1. This service is furnished subject to the availability of facilities as determined by the central office.
2. Temporary suspension of ISDN service by a customer is not permitted.
3. Up to three types of basic service capabilities may be activated on a digital service line. When three capabilities are selected, one must be low speed packet switched data.
4. Each ISDN service must include a digital service line and at least one basic service capability. Only one of each type of basic service capability is allowed on each line at 1 time.
5. Once a call has been established on an Alternate Voice/Circuit Switched Data capability, the call type (Voice or Data) cannot be changed without disconnecting and establishing a new call. For simultaneous voice and circuit switched data capability the Circuit Switched Data Capabilities must be ordered separately.
6. A minimum service period may be established by the Company and will be indicated in section 3, Group 8.
7. The voice usage charges generated by using ISDN service will be measured and rated by the associated class of service to which ISDN is a supplement.

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PRIVATE LINE SERVICE

H. INTEGRATED SERVICES DIGITAL NETWORK (cont'd)

2. Regulations (cont'd)

b. Service Applications and Restrictions (cont'd)

8. The customer is responsible for providing customer premises equipment (CPE) that complies with ISDN requirements of the serving Company's digital central office (as noted in Section 1).
9. Permanent virtual circuit charges are in addition to any associated virtual circuit charges.
10. Customers subscribing to Circuit Switched Data, Alternated Voice/Circuit Switched Data, and High or Low Speed Packet Switched Data must either be served by the same switch or a switch linked by facilities capable of sending circuit switched and or packet switched data in order to send or receive data transmissions with another subscriber.

3. Rates and Charges

- a. Service connection charges apply as found in the concurring Company's tariff, Section 3, Group 2. A one time System Establishment Charge will also apply as listed in the concurring Company's tariff, Section 3, Group 8.
- b. Monthly recurring charges will also apply as listed in the concurring Company's tariff, Section 3, Group 8.
- c. Individual Case Billing Arrangements can be developed at the discretion of the individual Company.
- d. The Federal Subscriber Line Charge applies on a per line basis.

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