REGULATIONS AND SCHEDULE OF CHARGES APPLYING TO INTRALATA LOCAL EXCHANGE TELEPHONE SERVICES WITHIN THE COMMONWEALTH OF VIRGINIA

This tariff is on file with the Virginia State Corporation Commission and can be viewed at their Division of Communications located in the Tyler Building – 9th Floor, 1300 East Main Street, Richmond, Virginia 23219. In addition, this tariff is available for review at the Company's principal place of business, Monday-Friday, 9:00AM – 5:00 PM, local time located at 1500 MacCorkle Avenue, SE, Charleston, WV 25314.

Toll Free # (800) 921-8101

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[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

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** See General Regulations Tariff, S.C.C –Va. –No. 1, Section 3, Page 1. Effective 10/02/06, this service is grandfathered applicable to all customers.

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** See General Regulations Tariff, S.C.C –Va. –No. 1, Section 3, Page 1. Effective 10/02/06, this service is grandfathered applicable to all customers.

[1] Effective August 20, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay] Service. Upon service term expiration, this service will transition to a Month-to-Month service arrangement. (N) | (N)

APPLICATION OF TARIFF

A. GENERAL

This tariff contains regulations, rates and charges applicable to the provision of Carrier Common Line, Switched Access and Special Access Services, and other miscellaneous services, hereinafter referred to collectively as service(s), provided by Frontier Virginia, Inc., hereinafter referred to as the Telephone Company, to customers.

B. REGULATIONS

1. Explanation of Symbols

The following symbols apply to this tariff.

(C) - To signify changed regulation
(D) - To signify discontinued rate or regulation.
(I) - To signify increase.
(N) - To signify new rate or regulation.
(R) - To signify reduction in rate.
(S) - To signify reissued matter.
(T) - To signify a change in text but no change in rate or regulation.
(U) - See USOC Manual.

2. Explanation of Abbreviations

The following abbreviations apply to this tariff.

ac - alternating current
AML - Actual Measured Loss
ANI - Automatic Number Identification
AP - Program Audio
ATP - Access Transport Parameter
AT&T - American Telephone and Telegraph Company
BD - Business Day
BHMC - Busy Hour Minutes of Capacity
CAROT - Centralized Automatic Reporting on Trunks
CCS - Common Channel Signaling
CSSAS - Common Channel Signaling Access Service
CN - Charge Number
CI - Channel Interface
CO - Central Office
COCTX - Central Office Centrex
Cont'd - Continued
CPE - Customer-provided Equipment
CPN - Calling Party Number
CSP - Carrier Selection Parameter
Ctx - Centrex
DA - Directory Assistance
dB - decibel
dBrnC - Decibel Reference Noise C-Message Weighting
dBrnCO - Decibel Reference Noise C-Message Weighted O
dBv - decibel(s) relative to 1 Volt (reference)
dbvl - decibel(s) Relating to 1 Volt (Reference)
dc - direct current
EDD - Envelope Delay Distortion
ELEPL - Equal Level Echo Path Loss
EML - Expected Measured Loss

APPLICATION OF TARIFF

B. REGULATIONS (Cont'd)

2. Explanation of Abbreviations (Cont'd)

The following abbreviations apply to this tariff. (Cont'd)

EPL	- Echo Path Loss
ERL	- Echo Return Loss
ESS	- Electronic Switching System
ESSX	- Electronic Switching System Exchange
f	- frequency
FID	- Field Identifier
F.C.C.	- Federal Communications Commission
FX	- Foreign Exchange
HC	- High Capacity
Hz	- Hertz
IC	- Interexchange Carrier
ICB	- Individual Case Basis
ICL	- Inserted Connection Loss
kbps	- kilobits per second
kHz	- kilohertz
LATA	- Local Access and Transport Area
Ma	- milliamperes
Mbps	- Megabits per second
MHz	- Megahertz
MMUC	- Minimum Monthly Usage Charge
MRC	- Monthly Recurring Charge
MT	- Metallic
MTS	- Message Telecommunications (long distance) Service(s)
NB	- Narrowband
NPA	- Numbering Plan Area
NRC	- Nonrecurring Charge
NST	- Nonscheduled Testing
NXX	- Three-digit Central Office Code
OTPL	- Zero Transmission Level Point
OTS	- Operator Transfer Service
PBX	- Private Branch Exchange
PCM	- Pulse Code Modulation
PLR	- Private Line Ringdown
POT	- Point of Termination
rms	- root-mean-square
RSM	- Remote Switching Modules
RSS	- Remote Switching Systems
SRL	- Singing Return Loss
SSN	- Switched Service Network
SWC	- Serving Wire Center
TAS	- Tandem Access Sectorization
TASA	- Tandem Access Sectorization Area
TES	- Telephone Exchange Service(s)
TG	- Telegraph Grade
TLP	- Transmission Level Point

APPLICATION OF TARIFF

B. REGULATIONS (Cont'd)

2. Explanation of Abbreviations (Cont'd)

The following abbreviations apply to this tariff. (Cont'd)

TSPS	- Traffic Service Position System
TV	- Television
VG	- Voice Grade
V & H	- Vertical & Horizontal
WA	- Wideband Analog
WATS	- Wide Area Telecommunications Service(s)
WD	- Wideband Digital

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

4. The regulations, rates and charges contained herein are in addition to the applicable regulations, rates and charges specified in other tariffs of the Telephone Company which are referenced herein.

5. Reference to Other Tariffs

Whenever reference is made in this tariff 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.

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company

2.1.1 Scope

(A) The Telephone Company does not undertake to transmit messages under this tariff.

(B) The Telephone Company shall be responsible only for the installation, operation and maintenance of the services it provides.

(C) The Telephone Company will, for maintenance purposes, test its services only to the extent necessary to detect and/or clear troubles.

(D) Services are provided 24 hours daily, seven days per week, except as set forth in other applicable sections of this tariff.

(E) The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this tariff.

2.1.2 Limitations

(A) The customer may not assign or transfer the use of services provided under this tariff; however, where there is no interruption of use or relocation of the services, such assignment or transfer may be made to:

(1) another customer, whether an individual, partnership, association or corporation, provided the assignee or transferee assumes all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such services, if any; or

(2) a court-appointed receiver, trustee or other person acting pursuant to law in bankruptcy, receivership, reorganization, insolvency, liquidation or other similar proceedings, provided the assignee or transferee assumes the unexpired portion of the minimum period and the termination liability applicable to such services, if any.

In all cases of assignment or transfer, the written acknowledgment of the Telephone Company is required prior to such assignment or transfer which acknowledgement shall be made within 15 days from the receipt of notification. All regulations and conditions contained in this tariff shall apply to such assignee or transferee.

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(A) (Cont'd)

(2) (Cont'd)

The assignment or transfer of services does not relieve or discharge the assignor or transferor from remaining jointly or severally liable with the assignee or transferee for any obligations existing at the time of the assignment or transfer.

(B) The use and restoration of services shall be in accordance with the practices of the Telephone Company.

(C) Subject to compliance with the rules mentioned in (B) preceding, where a shortage of facilities or equipment exists at any time, either for temporary or protracted periods, the services offered herein will be provided to customers on a first-come, first-served basis.

2.1.3 Liability

(A) The Telephone Company's liability, if any, for its willful misconduct is not limited by this tariff. With respect to any other claim or suit, by a customer or by any others, for damages associated with the installation, provision, termination, maintenance, repair or restoration of service, and subject to the provisions of (B) through (H) following, the Telephone Company's liability except as set forth in 8B.3 following, if any, shall not exceed an amount equal to the proportionate charge for the service for the period during which the service was affected. This liability for damages shall be in addition to any amounts that may otherwise be due the customer under this tariff as a Credit Allowance for a Service Interruption.

(B) The Telephone Company shall not be liable for any act or omission of any other carrier or customer providing a portion of a service nor shall the Telephone Company for its own act or omission hold liable any other carrier or customer providing a portion of a service.

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(C) The Telephone Company is not liable for damages to the customer's premises resulting from the furnishing of a service, including the installation and removal of equipment and associated wiring, unless the damage is caused by the Telephone Company's negligence.

(D) The Telephone Company shall be indemnified, defended and held harmless by the end user against any claim, loss or damage arising from the end user's use of services offered under this tariff, involving:

(1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the end user's own communications;

(2) Claims for patent infringement arising from the end user's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the IC or end user or;

(3) All other claims arising out of any act or omission of the end user in the course of using services provided pursuant to this tariff.

(E) The Telephone Company shall be indemnified, defended and held harmless by the IC against any claim, loss or damage arising from the IC's use of services offered under this tariff, involving:

(1) Claims for libel, slander, invasion of privacy, or infringement or copyright arising from the IC's own communications;

(2) Claims for patent infringement arising from the IC's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end user or IC or;

(3) All other claims arising out of any act or omission of the IC in the course of using services provided pursuant to this tariff.

(F) The Telephone Company does not guarantee or make any warranty with respect to its services when used in an explosive atmosphere. The Telephone Company shall be indemnified, defended and held harmless by the customer from any and all claims by any person relating to such customer's use of services so provided.

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(G) No license under patents (other than the limited license to use) is granted by the Telephone Company or shall be implied or arise by estoppel, with respect to any service offered under this tariff. The Telephone Company will defend the customer against claims of patent infringement arising solely from the use by the customer of services offered under this tariff and will indemnify such customer for any damages awarded based solely on such claims.

(H) The Telephone Company's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotions, criminal actions taken against the Telephone Company, acts of God and other circumstances beyond the Telephone Company's reasonable control, subject to the Credit Allowance for a Service Interruption as set forth in 2.4.4 following.

2.1.4 Provision of Services

The Telephone Company, to the extent that such services are or can be made available with reasonable effort, and after provision has been made for the Telephone Company's Exchange Services, will provide to the customer upon reasonable notice services offered in other applicable sections of this tariff at rates and charges specified therein.

Telecommunications Service Priority System, a service which provides for priority installation and restoration of certain telecommunications services designated by the Federal Government, is offered as specified in the Miscellaneous Service Arrangements Tariff.

2.1.5 Installation and Termination of Services

The services provided under this tariff 1) will include any entrance cable or drop wiring and wire or intrabuilding cable to that point at a customer's location where provision is made for termination of the Telephone Company's outside distribution network facilities and 2) will be installed by the Telephone Company to such point of termination. For services where through-testing and/or connecting equipment are required beyond the point of connection, such through-testing and/or connecting equipment (excluding wire) will be provided as a part of that service and any wire required beyond the point of connection may be provided by either the Telephone Company or the customer. Wire, required within a building to extend Access Service facilities, will be provided, at the customer's request, on a time sensitive and material charge basis. The labor rates for the installation of such wire are the same as those set forth in 13.2.6(C) following for Other Labor. The material charges are based on the current price list on file with the State Corporation Commission.

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.6 Maintenance of Services

The services provided under this tariff shall be maintained by the Telephone Company. The customer or others may not rearrange, move, disconnect, remove or attempt to repair any facilities provided by the Telephone Company, other than by connection or disconnection to any interface means used, except with the written consent of the Telephone Company.

2.1.7 Changes and Substitutions

Except as provided for equipment and systems subject to F.C.C. Part 68 regulations at 47 C.F.R. Section 68.110(b), the Telephone Company may, where such action is reasonably required in the operation of its business, A) substitute, change or rearrange any facilities used in providing service under this tariff, including but not limited to, 1) substitution of different metallic facilities, 2) substitution of carrier or derived facilities for metallic facilities used to provide other than metallic facilities and 3) substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities, B) change minimum protection criteria, C) change operating or maintenance characteristics of facilities or D) change operations or procedures of the Telephone Company. In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in Sections 6 and 7 following. The Telephone Company shall not be responsible if any such substitution, change or rearrangement renders any customer-furnished services obsolete or requires modification or alteration thereof or otherwise affects their use or performance. If such substitution, change or rearrangement materially affects the operating characteristics of the facility, the Telephone Company will provide reasonable notification to the customer in writing. Reasonable time will be allowed for any redesign and implementation required by the change in operating characteristics. The Telephone Company will work cooperatively with the customer to determine reasonable notification procedures.

2.1.8 Refusal and Discontinuance of Service

(A) Unless the provisions of 2.2.1(B) or 2.5 following apply, if customer fails to comply with 2.1.6 preceding or 2.2.2, 2.3.1, 2.3.4, 2.3.5 or 2.4 following, including any payments to be made by it on the dates and times herein specified, the Telephone Company may, on thirty (30) days' written notice by Certified U.S. Mail to the person designated by that customer to receive such notices of noncompliance, refuse additional applications for service and/or refuse to complete any pending orders for service by the noncomplying customer at any time thereafter.

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

(A) (Cont'd)

If the Telephone Company does not refuse additional applications for service on the date specified in the thirty days notice, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service to the noncomplying customer without further notice.

(B) Unless the provisions of 2.2.1(B) or 2.5 following apply, if a customer fails to comply with 2.1.6 preceding or 2.2.2, 2.3.1, 2.3.4, 2.3.5 or 2.4 following, including any payments to be made by it on the dates and times herein specified, the Telephone Company may, on thirty (30) days' written notice by Certified U.S. Mail to the person designated by that customer to receive such notices of non-compliance, discontinue the provision of the services to the noncomplying customer at any time thereafter. In the case of such discontinuance, all applicable charges, including termination charges, shall become due. If the Telephone Company does not discontinue the provision of the services involved on the date specified in the thirty days notice, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to discontinue the provision of the services to the noncomplying customer without further notice.

2.1.9 Limitation of Use of Metallic Facilities

Signals applied to a metallic facility shall conform to the limitations set forth in Technical Reference Publications AS No. 1. In the case of application of dc telegraph signaling systems, the customer shall be responsible, at its expense, for the provision of current limiting devices to protect the Telephone Company facilities from excessive current due to abnormal conditions and for the provision of noise mitigation networks when required to reduce excessive noise.

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.10 Notification of Service-Affecting Activities

The Telephone Company will provide the customer reasonable notification of service-affecting activities that may occur in normal operation of its business. Such activities may include, but are not limited to, equipment or facilities additions, removals or rearrangements, routine preventative maintenance and major switching machine change-out. Generally, such activities are not individual customer service specific, they affect many customer services. No specific advance notification period is applicable to all service activities. The Telephone Company will work cooperatively with the customer to determine the notification requirements.

2.1.11 Coordination with Respect to Network Contingencies

The Telephone Company intends to work cooperatively with the customer to develop network contingency plans in order to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.1.12 Provision and Ownership of Telephone Numbers

The Telephone Company reserves the reasonable right to assign, designate or change telephone numbers, any other call number designations associated with Access Services, or the Telephone Company serving central office prefixes associated with such numbers, when necessary in the conduct of its business. Should it become necessary to make a change in such number(s), the Telephone Company will furnish to the customer 6 months notice, by Certified U.S. Mail, of the effective date and an explanation of the reason(s) for such change(s).

2.2 Use

2.2.1 Interference or Impairment

(A) The characteristics and methods of operation of any circuits, facilities or equipment provided by other than the Telephone Company and associated with the facilities utilized to provide services under this tariff shall not interfere with or impair service over any facilities of the Telephone Company, its affiliated companies, or its connecting and concurring carriers involved in its services, cause damage to their plant, impair the privacy of any communications carried over their facilities or create hazards to the employees of any of them or the public.

GENERAL REGULATIONS

2.2 Use (Cont'd)

2.2.1 Interference or Impairment (Cont'd)

(B) Except as provided for equipment on systems subject to the F.C.C. Part 68 rules in 47 C.F.R. Section 68.108, if such characteristics or methods of operation are not in accordance with (A) preceding, the Telephone Company will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, nothing contained herein shall be deemed to preclude the Telephone Company's right to temporarily discontinue forthwith the use of a service if such action is reasonable under the circumstances. In case of such temporary discontinuance, the customer will be promptly notified and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance. During such period of temporary discontinuance, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable.

2.2.2 Unlawful Use

The service provided under this tariff shall not be used for an unlawful purpose.

2.3 Obligations of the Customer

2.3.1 Damages

The customer shall reimburse the Telephone Company for damages to Telephone Company facilities utilized to provide services under this tariff caused by the negligence or willful act of the customer, or resulting from the customer's improper use of the Telephone Company facilities, or due to malfunction of any facilities or equipment provided by other than the Telephone Company. Nothing in the foregoing provision shall be interpreted to hold one customer liable for another customer's actions. The Telephone Company will, upon reimbursement for damages, cooperate with the customer in prosecuting a claim against the person causing such damage and the customer shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment.

2.3.2 Ownership of Facilities and Theft

Facilities furnished by the Telephone Company to provide service under the provisions of this tariff shall remain the property of the Telephone Company. Such facilities shall be returned to the Telephone Company by the customer, whenever requested, within a reasonable period following the request in as good condition as reasonable wear will permit.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.3 Equipment Space and Power

The customer shall furnish or arrange to have furnished to the Telephone Company, at no charge, equipment space and electrical power required by the Telephone Company to provide services under this tariff at the points of termination of such services. The selection of ac or dc power shall be mutually agreed to by the customer and the Telephone Company. The customer shall also make necessary arrangements in order that the Telephone Company will have access to such spaces at reasonable times for installing, testing, repairing or removing Telephone Company services.

2.3.4 Availability for Testing

The services provided under this tariff shall be available to the Telephone Company at times mutually agreed upon in order to permit the Telephone Company to make tests and adjustments appropriate for maintaining the services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable time. No credit will be allowed for any interruptions involved during such tests and adjustments.

2.3.5 Balance

All signals for transmission over the services provided under this tariff shall be delivered by the customer balanced to ground except for ground start, duplex (DX) and McCulloh-Loop (Alarm System) type signaling and dc telegraph transmission at speeds of 75 baud or less.

2.3.6 Design of Customer Services

Subject to the provisions of 2.1.7 preceding, the customer shall be solely responsible, at its own expense for the overall design of its services and for any redesigning or rearrangement of its services which may be required because of changes in facilities, operations or procedures of the Telephone Company, minimum protection criteria or operating or maintenance characteristics of the facilities.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.7 References to the Telephone Company

The customer may advise end users that certain services are provided by the Telephone Company in connection with the service the customer furnishes to end users; however, the customer shall not represent that the Telephone Company jointly participates in the customer's services.

2.3.8 Claims and Demands for Damages

(A) With respect to claims of patent infringement made by third persons, the customer shall defend, indemnify, protect and save harmless the Telephone Company from and against all claims arising out of the combining with, or use in connection with, the services provided under this tariff, any circuit, apparatus, system or method provided by the customer.

(B) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by third persons arising out of the construction, installation, operation, maintenance, or removal of the customer's circuits, facilities, or equipment connected to the Telephone Company's services provided under this tariff, including, without limitation, Workmen's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortious conduct of the customer, its officers, agents or employees.

(C) The customer shall defend, indemify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by the customer or third parties arising out of any act or omission of the customer in the course of using services provided under this tariff.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.9 Coordination with respect to Network Contingencies

The customer shall, in cooperation with the Telephone Company, coordinate in planning the actions to be taken to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.3.10 Jurisdictional Report Requirements

(A) Jurisdictional Reports

For purposes of determining the jurisdiction of Switched Access Services, the regulations set forth in (A) through (D) apply.

(1) Percent Interstate Usage (PIU) Factor

(a) When the Telephone Company receives sufficient call detail to permit it to determine the jurisdiction of some or all originating and terminating access minutes of use, the Telephone Company will use that call detail to render bills for those minutes of use and will not use customer reported Percent Interstate Usage (PIU) factors to determine the jurisdiction of those minutes of use.

The Telephone Company will apply the PIU factor, either provided by the customer or as set forth in sections (1)(b) or (A)(3), only to minutes of use for which the Telephone Company does not have sufficient call detail to determine jurisdiction. The customer-provided PIU factor will be used until the customer provides an updated PIU factor, as set forth in (A)(3) following. No prorating or back billing will be done based on the updated report.

There may be some portion of terminating minutes where it is not possible to know, and therefore to send, the needed originating number information. A “floor” of 7.00 percent(%) will be set for terminating access minutes lacking originating number information, for all switched access customers.

(1) When the percentage of terminating traffic without sufficient call detail to determine jurisdiction does not exceed the sum of the floor plus a 2.00 percent (%) grace threshold or 9.00 (%), the Telephone Company will apply the PIU factor, either provided by the customer or as set forth in section (1)(b).

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(1) Percent Interstate Usage (PIU) Factor (Cont'd)

(a) (Cont'd)

(2) When the percentage is greater than 9.00 percent (%), the Telephone Company will assess rates from this tariff on all minutes exceeding the floor. For example, if 30 percent (%) of a customer's terminating minutes sent to the Telephone Company do not contain sufficient originating information to allow the Telephone Company to determine the originating location, then the Telephone Company would apply the provisions of this tariff to those minutes exceeding the "floor", or 23.00 percent (%) in this example.

In the event that the Telephone Company applies rates to terminating calls without originating number information as provided in this tariff, customers will have the opportunity to request backup documentation of the Telephone Company's basis for such application, and further request that the Telephone Company change the application of the intrastate access rate upon a showing of why the intrastate rate should not be applied.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(1) Percent Interstate Usage (PIU) Factory (Cont'd)

(b) When the customer initially orders Switched Access Service(s) the customer will state in its order (Access Service Request) a PIU factor. This factor will be used by the Telephone Company as the customer-provided PIU factor until the customer provides updated PIU factors as required in (A)(3) following. For each service listed below, the customer may provide separate PIU factors in accordance with (a) and (c).

- Feature Group A (FGA) Switched Access Service Notes 1,2
- Feature Group B (FGB) Switched Access Service Notes 1,2
- Feature Group C (FGC) Switched Access Service Notes 1,2
- Feature Group D (FGD) Switched Access Service Notes 1, 2
- Basic Serving Arrangement A (BSA-A) Notes 1, 2, 3
- Basic Serving Arrangement B (BSA-B) Notes 1, 2, 3
- Basic Serving Arrangement C (BSA-C) Notes 1, 2, 3
- Basic Serving Arrangement D (BSA-D) Notes 1, 2, 3
- 500 Access Services Notes 1, 2
- 700 Access Services Notes 1, 2
- Toll Free Services Notes 1, 2, 4
- 900 Access Services Notes 1, 2

Note 1: The PIU factors will apply to all associated elements and services, e.g., End Office Switching, Information Surcharge, Interconnection Charge, and, if applicable, Tandem Switched Transport and Tandem Switching Minutes of use.

Note 2: The PIU Factory for Switched Access services must be provided by the customer of record when used in conjunction with Collocation Service or when used in conjunction with Tandem Switch Signaling.

Note 3: When determining the jurisdiction of Switched Access traffic provided via a BSA or Basic Service Element (BSE) and the intrastate equivalent of the BSA or BSE is only available on a bundled feature group basis, intrastate usage will be prorated to the bundled intrastate feature group equivalent of the BSA.

Note 4: "Toll Free" service includes any access service which utilizes the following NPAs: 800, 888, 877, 866, 855, 844, 833,and 822 (as they become available to the Industry).

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(1) Percent Interstate Usage (PIU) Factor (Cont'd)

(b) (Cont'd)

When a customer submits an order for Switched Access services, the customer must state the PIU factor on a statewide, LATA, or Billing Account Number (BAN) level. When the customer provides PIU factors, the Telephone Company will subtract the developed PIU from 100, and the difference is the percent intrastate usage. The sum of the interstate and intrastate percentages will equal 100 percent. The customer may only provide a PIU factor that is a whole number (a number from 0 to 100).

(c) For purposes of developing the projected interstate percentage for Feature Group C (or BSA-C) and Feature Group D (or BSA-D), the customer shall consider every call, that originates from a calling party in one state and terminates to a called party in a different state, to be interstate communications. The customer shall consider every call that terminates to a called party within the same state as the state where the calling party is located, to be intrastate communications. The manner in which a call is routed through the telecommunications network does not affect the jurisdiction of a call; i.e., a call between two points within the same state is an intrastate call even if it is routed through another state.

For Feature Group A (or BSA-A) and Feature Group B (or BSA-B), pursuant to Federal Communications Commission order FCC 85-145 adopted April 16, 1985, interstate usage is to be developed as though every call, that enters a customer network at a point within the same state as that in which the called station is situated, is an intrastate communication and every call, that enters a customer's network at a point in a state other than that where the called station is situated, is an interstate communication.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(2) Entrance Facilities and Direct-Trunked Transport Facilities.

The Telephone Company will develop a PIU factor to apply to Entrance Facility and Direct-Trunked Transport rate elements when sufficient call data exists. The Telephone Company will apply the PIU factor provided by the customer as set forth in (A)(3) only when the Telephone Company does not have sufficient data to develop a PIU factor.

A customer may provide a separate PIU factor for each rate element (Entrance Facilities and the Direct-Trunked Transport) at a Billing Account Number or higher reporting level reflecting the originating and terminating traffic of all services that use such facilities. A consolidated PIU factor for all Entrance Facility and Direct-Trunked Transport elements may be provided at the option of the customer if such PIU is representative of the actual interstate use of the service.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(3) Jurisdictional Reports Updates

The customer may update the interstate and intrastate jurisdictional reports on a quarterly basis. The reports will be based on the prior three months and will be due within fifteen days after the end of the quarter, beginning with the completion of the first full quarter of service. In the event that the Telephone Company does not have sufficient data to rely on actual call detail or to develop a PIU factor, these factors will be applied to activity dated on or after the first day of the next calendar month, which begins at least 15 business days after the day on which the revised report or letter is received.

If the revised factors represent what the Telephone Company considers to be a substantial deviation (a deviation of 5 (five) percentage points or more for the preceding twelve calendar months is a substantial deviation) from the customer's previously reported factors and cannot be attributed to seasonal changes or other identifiable reasons, the Telephone Company will request a Jurisdictional Report Verification of the factors as set forth in 2.3.3 (C) following.

When the Telephone Company does not have sufficient data to rely on actual call detail or to develop a PIU factor, the revised report or letter will serve as the basis for the next three months' billing and will be effective on the bill date for that service. If the customer does not supply an updated quarterly report or letter, the Telephone Company will assume the customer provided PIU factors to be the same as those provided in the last quarterly report or letter accepted by the Telephone Company.

For those cases in which a quarterly report or letter has never been received from the customer, the Telephone Company will assume the customer-provided PIU factors to be the same as provided in the order for service.

A customer may file jurisdictional reports aggregating usage at a statewide, LATA, or Billing Account Number (BAN) level.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(B) Maintenance of Customer Records

The customer shall retain for a minimum of twelve months call detail records that substantiate and the methods used to calculate the interstate percent provided to the Telephone Company as set forth in (A) preceding for switched access service. Such records shall consist of (1) and (2) following, if applicable:

(1) All call detail records such as work papers and/or backup documentation including paper, magnetic tapes or any other form of records for billed customer traffic, call information including call originating and terminating address (i.e., calling, called number), the call duration, all originating and terminating trunk groups or access lines over which the call is routed, and the point at which the call enters the customer's network; and

(2) If the customer has a mechanized system in place that calculated the PIU factor, then a description of that system and the methodology used to calculate the PIU factor must be furnished as well as any other pertinent information (such as but not limited to: flowcharts, source code, etc.) relating to such system must also be made available.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Reports Verification

The Company may request the customer to verify their jurisdictional reports. The customer shall keep records of call detail from which the percentage of interstate and intrastate use can be ascertained. The Company will request the customer to provide the records of call detail and other information (as specified in (B) preceding), uses to determine the percentage of interstate and intrastate use. No more than one verification request per state will be made per year.

(1) If the PIU factors filed by the customer cannot be validated by the data provided, and the data provided by the customer is sufficient to calculate a PIU factor different than the customer's reported PIU factor, the Telephone Company will use these records to:

(a) Revise the customer's PIU factor.

(b) Calculate the interstate and intrastate access charges that should have been billed to the customer for the prior period specified in (B) preceding that the inaccurate PIUs had been used and debit or credit the customer for the difference between the charges that should have been billed with the default PIU and the charges that were billed.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Reports Verification (Cont'd)

The customer shall supply the data to the Telephone Company within 30 days of the Telephone Company request. The Telephone Company will request data for the four prior quarters unless a shorter period is requested by the customer and agreed to by the Telephone Company.

(2) If the customer fails to supply data (as specified in (B) preceding) within 45 calendar days of the Company's request, sufficient for the Company to substantiate or determine PIU factors, then:

(a) The Company will apply a default PIU factor of 50% to the traffic for which the Company does not have sufficient call detail to determine the jurisdiction of the traffic ("unknown jurisdiction" usage) (i.e., 50% of the unknown jurisdiction usage will be billed under the interstate jurisdiction and 50% of the unknown jurisdiction usage will be billed under the intrastate tariff) in lieu of the PIU factors last submitted by the customer.

(b) The Company will apply the default PIU factor to all future access minutes of use with unknown jurisdiction beginning with the first bill date following the 45 calendar day period during which the customer was to submit the records of call detail requested by the Company. The application of the default PIU factor will continue until the customer provides the Company with records of call detail or other data that are sufficient for the Company to substantiate the customer-provided PIU factors.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(D) Contested Jurisdictional Reports

If the Telephone Company determines that the customer-provided PIUs are inaccurate, after reviewing the data provided by the customer, then Telephone Company may report the results of the analysis to the customer by Certified U.S. Mail (return receipt requested). The Telephone Company may request that the customer provide updated PIU factors consistent with those contained in the Telephone Company's report.

If the Telephone Company applies the revised or default PIU factor to the customer's account as provided in (C) preceding in lieu of the customer-provided PIU factor, the customer may contest application of the revised or default PIU by providing written notification, by Certified U.S. Mail (return receipt requested), to the Telephone Company within thirty (30) calendar days from the date the revised or default PIU is applied or the date that the Telephone Company provides notice to the customer of its decision to apply the revised or default PIU. The customer may request that the dispute be resolved by a neutral arbitrator mutually agreed upon by the Telephone Company and the customer. Arbitration is an option provided in addition to the customer's existing right to file a complaint or legal action in a court of law or at the Virginia State Corporation Commission for resolution of the dispute. The arbitration hearing will be conducted in a state or location within the Telephone Company operating territory where the customer maintains its principal place of business or at a location within the Telephone Company operating territory that is mutually agreed upon by both parties. The arbitration procedures shall be governed by the law (both statutory and case) of the state in which the arbitration hearing is held, including, but not limited to, the Uniform Arbitration Act, as adopted in that state. The arbitrator shall determine the customer's PIU for each state for each category of traffic based on the standards in (A) preceding.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(D) Contested Jurisdictional Reports (Cont'd)

Prior to the arbitration hearing, each party shall notify the arbitrator of the PIU factor(s) which that party believes to be correct. The arbitrator, in deciding, may adopt the PIU of either party or may adopt a PIU different from those proposed by the parties. If the arbitrator adopts a PIU proposed by one of the parties, the other party (whose PIU was not adopted) shall pay all costs of the arbitration. If the arbitrator adopts a PIU higher than either of the PIU proposed by the parties, then the party proposing the lower PIU shall pay all costs of the arbitration. If the arbitrator adopts a PIU lower than either of the PIU proposed by the parties, then the party proposing the higher PIU shall pay all costs of the arbitration. If the arbitrator adopts a PIU which falls between the two adopted by the parties, then the parties shall each pay one-half of the arbitration costs.

The PIU factor(s) for each state for each category of traffic determined by the arbitrator will be applied by the Telephone Company to all future access minutes of use with unknown jurisdiction from that customer in that state until the customer provides the Telephone Company with records of call detail or other data that are sufficient for the Telephone Company to substantiate the customer-provided PIU factors.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(D) Contested Jurisdictional Reports (Cont'd)

Absent the customer's written notification, within the timeframe noted above, the customer must comply with the provisions set forth in (B) & (C) preceding. If the customer fails to comply with these provisions, the customer will be in violation of this tariff and the Telephone Company may refuse additional applications for service and/or refuse to complete any and all pending orders for service or may discontinue the provision of services to the customer as specified in Section 2.1.8 preceding.

The Telephone Company retains the right to pursue any and all other legal remedies, whether in addition to, or in lieu of, the above procedures, to recover any under-billed switched access charges associated with incorrect customer-provided PIU factors under the applicable interstate or intrastate tariffs.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.11 Determination of Intrastate Charges for Mixed Interstate and Intrastate Access Service

When mixed interstate and intrastate Access Service is provided, all charges (i.e., nonrecurring, monthly and/or usage) including optional features charges, will be prorated between interstate and intrastate. The percentage provided in the reports as set forth in 2.3.10(A) preceding will serve as the basis for prorating the charges. The percentage of an Access Service to be charged as intrastate is applied in the following manner:

(A) For monthly and nonrecurring chargeable rate elements, multiply the percent intrastate use times the quantity of chargeable elements times the stated tariff rate per element.

(B) For usage sensitive (i.e., access minutes and calls) chargeable rate elements, multiply the percent intrastate use times actual use (i.e., measured or Telephone Company assumed average use) times the stated tariff rate.

The intrastate percentage will change as revised usage reports are submitted as set forth in 2.3.10 preceding.

2.4 Payment Arrangements and Credit Allowances

2.4.1 Payment of Rates, Charges and Deposits

(A) The Telephone Company will, in order to safeguard its interests, only require a customer which has a proven history of late payments to the Telephone Company or does not have established credit, to make a deposit prior to or at any time after the provision of a service to the customer to be held by the Telephone Company as a guarantee of the payment of rates and charges. No such deposit will be required of a customer which is a successor of a company which has established credit and has no history of late payments to the Telephone Company. Such deposit may not exceed the actual or estimated rates and charges for the service for a two-month period. The fact that a deposit has been made in no way relieves the customer from complying with the Telephone Company's regulations as to the prompt payment of bills. At such time as the provision of the service to the customer is terminated, the amount of the deposit will be credited to the customer's account and any credit balance which may remain will be refunded.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(A) (Cont'd)

Such a deposit will be refunded or credited to the account when the customer has established credit or, in any event, after the customer has established a one-year prompt payment record at any time prior to the termination of the provision of the service to the customer. In case of a cash deposit, for the period the deposit is held by the Telephone Company, the customer will receive interest at the rate specified in the General Regulations Tariff for Deposits. Should a deposit be credited to the customer's account, as indicated preceding, no interest will accrue on the deposit from the date such deposit is credited to the customer's account.

(B) The Telephone Company shall bill on a current basis all charges incurred by and credits due to the customer under this tariff attributable to services established or discontinued during the preceding billing period. In addition, the Telephone Company shall bill in advance, charges for all services to be provided during the ensuing billing period except for charges associated with service usage and for the Federal Government which will be billed in arrears. The bill day (i.e., the billing date of a bill for a customer for Access Service under this tariff), the period of service each bill covers and the payment date will be as follows:

(1) For Presubscription Service, the Telephone Company will establish a bill day each month for each end user account. The bill will cover Presubscription Service charges for the ensuing billing period except for Presubscription Service for the Federal Government which will be billed in arrears. Any known unbilled charges for prior periods and any known unbilled adjustments for prior periods for Presubscription Service will be applied to this bill. Such bills are due when rendered.

(2) For Service other than Presubscription Service, the Telephone Company will establish a bill day each month for each customer account. The bill will cover nonusage sensitive service charges, except Feature Group A and B per-month charges, for the ensuing billing period for which the bill is rendered, any known unbilled nonusage sensitive charges for prior periods and unbilled usage charges and Feature Group A and B per-month charges for the period after the last bill day through the current bill day. Any known

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

(2) (Cont'd)

unbilled usage charges for prior periods and any known un-billed adjustments will be applied to this bill. Payment for such bills is due as set forth in (3) following. If payment is not received by the payment date, as set forth in (3) following in immediately available funds, a late payment penalty will apply as set forth in (3) following.

(3) (a) All bills dated as set forth in (2) preceding for service, other than Presubscription Service, provided to the customer by the Telephone Company are due 31 days (payment date) after the bill day, or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, except as provided herein, and are payable in immediately available funds. If such payment date would cause payment to be due on a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the second Tuesday in November and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment for such bills will be due from the customer as follows:

If such payment date falls on a Sunday or on a Holiday which is observed on a Monday, the payment date shall be the first non-Holiday day following such Sunday or Holiday. If such payment date falls on a Saturday or on a Holiday which is observed on Tuesday, Wednesday, Thursday or Friday, the payment date shall be the last non-Holiday day preceding such Saturday or Holiday.

(b) Further, if any portion of the payment is received by the Telephone Company after the payment date as set forth in (a) preceding, or if any portion of the payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company, then a late payment penalty shall be due to the Telephone Company. The late payment penalty shall be the portion of the payment not received by the payment date times a late factor. The late factor shall be the lesser of:

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

(3) (Cont'd)

(b) (Cont'd)

(I) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company, or

(II) 0.000590 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

(c) In the event that a billing dispute concerning any charges billed to the customer by the Telephone Company is resolved in favor of the Telephone Company, any payments withheld pending settlement of the dispute shall be subject to the late payment penalty set forth in (b) preceding. If the customer disputes the bill on or before the payment date, and pays the undisputed amount on or before the payment date, any late payment charge for the disputed amount will not start until 10 days after the payment date. If the billing dispute is resolved in favor of the customer, no late payment penalty will apply to the disputed amount. In addition, if the customer disputes the billed amount and pays the total amount (i.e., the nondisputed amount and the disputed amount) on or before the payment date and the billing dispute is resolved in the favor of the customer, the customer will receive a credit for a disputed amount penalty from the Telephone Company if the billing dispute is not resolved within 10 working days following the payment date or the date the customer furnishes to the Telephone Company documentation to support its claim plus 10 working days, whichever date is the later date. The disputed amount penalty shall be the disputed amount resolved in the customer's favor times a penalty factor. The penalty factor is as set forth in (b) preceding.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(C) When a payment for Access Service charges billed under this Tariff is due to the Telephone Company from the customer as set forth in (B)(3) preceding on the same payment date that a Settlement Accounts Receivable net purchase amount is due to the customer from the Telephone Company, the Telephone Company may, with at least 15 days' notice to the customer, net the payment for customer Access Service Charges with the settlement amount. The Telephone Company will pay the net amount to the customer on the payment date when such net amount is due to the customer or require the customer to pay to the Telephone Company the net amount when such net amount is due to the Telephone Company. If either party does not make the payment on the payment date, a late payment penalty as set forth in (B)(3) preceding applies.

(D) Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period set forth for services in other sections of this tariff will be prorated to the number of days or major fraction of days based on a 30-day month. The Telephone Company will, upon request and if available, furnish such detailed information as may reasonably be required for verification of any bill.

(E) When a rate as set forth in this tariff is shown to more two decimal places, the charges will be determined using the rate shown. The resulting amount will then be rounded to the nearest penny (i.e., rounded to two decimal places).

(F) When more than one copy of a customer bill for services provided under the provisions of this tariff is furnished to the customer, an additional charge applies for each additional copy of the bill as set forth in 13.3.5 following.

2.4.2 Minimum Periods

The minimum period for which services are provided and for which rates and charges are applicable is one month except for those services set forth in 5.2.5, 9.4(A) and 13.3.4(C)(1) following.

The minimum period for which service is provided and for which rates and charges are applicable for a Specialized Service or Arrangement provided on an Individual Case Basis as set forth in 12. following, is one month unless a different minimum period is established with the individual case filing.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.2 Minimum Periods (Cont'd)

When a service is discontinued prior to the expiration of the minimum period, charges are applicable whether the service is used or not as follows:

(A) When a service with a one-month minimum period is discontinued prior to the expiration of the minimum period, a one-month charge will apply at the rate level in effect at the time service is discontinued.

(B) When a service with a minimum period greater than one month is discontinued prior to the expiration of the minimum period, the applicable charge will be the lesser of 1) the Telephone Company's total nonrecoverable costs less the net salvage value for the discontinued service or 2) the total monthly charges, at the rate level in effect at the time service is discontinued, for the remainder of the minimum period.

2.4.3 Cancellation of an Order for Service

Provisions for the cancellation of an order for service are set forth in other applicable sections of this tariff.

2.4.4 Credit Allowance for Service Interruptions

(A) General

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer as set forth in 6.5.1 following. An interruption period starts when Telephone Company personnel are notified by the customer that the service is inoperative and ends when the service is operative.

(B) When a Credit Allowance Applies

In case of an interruption to any service, allowance for the period of interruption, if not due to the negligence of the customer, shall be as follows:

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(1) For services other than those mentioned in (2) and (6) following, credits for interruptions shall be: (Cont'd)

(b) Special Access, Switched Transport or Public Data Network (Cont'd)

For example, if a DS1 carrying 24 trunks is out of service for 4 hours, the down-time is equal to 240 minutes per working trunk. The 240 is less than the 300 MOU daily limit; therefore:

240 minutes out-of-service X 24 trunks = 5,760 MOU credit multiplied by the tandem switching rate, fixed per MOU rate and the per-mile, per-MOU rate.

If a DS1 carrying 24 trunks is out of service for 8 hours, the credit would be determined as follows:

8 hours X 60 minutes = 480 (total minutes out of service for one trunk). The daily MOU credit is limited to 300 per day. Since the out-of-service time exceeds the maximum daily credit, the customer will receive the maximum credit of 300 MOU multiplied by the number of working trunks.

This credit is only applicable if the customer has purchased tandem trunks to the tandem that serves the end office where the out-of-service Direct-Trunked facility terminates.

(2) For Program Audio Service provided at daily rates, no credit shall be allowed for an interruption of less than 30 seconds. The customer shall be credited for an interruption of 30 seconds or more at the rate of 1/288 of the daily charge for the service for each 5 minutes or fraction thereof that an interruption continues. Two or more such interruptions occurring during a period of 5 consecutive minutes shall be considered as one interruption.

(3) Credit allowances for interruptions to Switched Access Service and Directory Assistance Service apply only to the applicable monthly rates and minimum monthly usage charges.

(4) The credit allowance(s) for an interruption or for a series of interruptions shall not exceed the monthly rate and minimum monthly usage charge for the service interrupted in any one monthly billing period.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(1) For services other than those mentioned in (2) and (6) following, credits for interruptions shall be:

(a) Switched Access

No credit shall be allowed for an interruption of less than 24 hours. The customer shall be credited for an interruption of 24 hours or more at the rate of 1/30 of the monthly charge for the service for each period of 24 hours or major fraction thereof that the interruption continues from the time Telephone Company personnel are notified by the customer that an interruption has occurred.

(b) Special Access, Switched Transport or Public Data Network

No credit shall be allowed for an interruption of less than thirty minutes. When service is interrupted for 30 minutes or more, credit is allowed for the portion of the service affected in one-half hourly multiples for each one-half hour period or major fraction thereof of interruption. The amount of credit is the proportionate part of the monthly charge, based on 24-hour daily service. The length of interruption shall be measured from the time Telephone Company personnel are notified by the customer of the interruption.

When a Switched Access direct-trunked facility experiences an interruption of service, a credit will be applied for the facility itself. When a customer who has both Direct Trunked and Tandem Access facilities experiences an interruption of service, the customer will receive a credit based on the traffic on the out-of-service facility that is diverted to the tandem and charged at tandem rates.

The MOU credit will be derived by assuming 9000 MOU per trunk per month. Therefore, the daily credit is limited to 300 MOU per trunk.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(8) Service Assurance Maintenance Guarantee (Cont'd)

All credit allowances shall begin from the time of notice by the customer, provided the customer releases the service as requested by the Telephone Company to perform testing and maintenance.

Any credit due the customer will be applied to the customer's monthly billing statement. The credit amount will equal 50% of the monthly recurring charge for each leg of the circuit that experiences a service interruption.

(C) When a Credit Allowance Does Not Apply

No credit allowance will be made for:

(1) Interruptions caused by the negligence of the customer.

(2) Interruptions of a service due to the failure of equipment or systems provided by the customer, or others.

(3) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises/property where the service is terminated.

(4) Interruptions of a service when the customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service, during the time that was negotiated with the customer prior to the release of that service.

Thereafter, a credit allowance as set forth in (B)(1) preceding applies.

(5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction, as set forth in this Company's General Services Tariff for Construction Charges. The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt by the Telephone Company of the customer's written authorization for such replacement.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(5) For certain Special Access services (Wideband Data, WD1-3; Digital Data Access, DA1-4; High Capacity, and switched transport, any period during which the error performance is below that specified for the service will be considered as an interruption.

(6) For High Capacity DS3 Services which are provided with an optical interface and consequently limit the Telephone Company's ability to test and restore service, no credit shall be allowed for an interruption of less than 4 hours, or any interruption resulting from equipment furnished by the customer.

(7) Service interruptions for Specialized Service or Arrangements provided under the provisions of Section 12 following shall be administered in the same manner as those set forth in this section (2.4.4) unless other regulations are specified with the individual case filing.

(8) Service Assurance Maintenance Guarantee

Service Assurance Maintenance Guarantee applies to Digital Data Service (DDS) and High Capacity Digital DS1 service. The Telephone Company will guarantee and credit a portion of the recurring charge for these services when the customer experiences an interruption of service of four consecutive hours or more, where the responsibility for the failure is solely that of the Telephone Company.

The Service Assurance Maintenance Guarantee credit may only apply to one occurrence of service interruption of four or more consecutive hours per month, per Digital Data Service (DDS) and High Capacity Digital Service. In the event that there is more than one service interruption of four or more hours on the same circuit, the Service Assurance Maintenance Guarantee does not apply to the subsequent interruptions. For multi-point circuits, the Service Assurance Maintenance Guarantee credit will apply to each leg of the circuit that experiences a service interruption. The Service Assurance Maintenance Guarantee credit is applied to the customer bill in addition to any existing credit allowances for DDS and DS1 services as long as it does not exceed the monthly charge. The monthly charge will consist of all applicable rate elements charged to the circuit experiencing a service interruption.

The Telephone Company will not be held responsible for and consequently will not provide a credit for service interruptions for those situations specified in (C)(1), (2) and (3) following.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(C) When a Credit Allowance Does Not Apply (Cont'd)

(6) Periods when the customer elects not to release the service for testing and/or repair and continues to use it on an impaired basis.

(7) An interruption or a group of interruptions, resulting from a common cause, for amounts less than one dollar.

(D) Use of an Alternative Service Provided by the Telephone Company

Should the customer elect to use an alternative service provided by the Telephone Company during the period that a service is interrupted, the customer must pay the tariffed rates and charges for the alternative service used.

(E) Temporary Surrender of a Service

In certain instances, the customer may be requested by the Telephone Company to surrender a service for purposes other than maintenance, testing or activity relating to a service order. If the customer consents, a credit allowance will be granted. The credit allowance will be 1/1440 of the monthly rate for each period of 30 minutes or fraction thereof that the service is surrendered. In no case will the credit allowance exceed the monthly rate for the service surrendered in any one monthly billing period.

2.4.5 Re-establishment of Service Following Fire, Flood or Other Occurrence

(A) Nonrecurring Charges Do Not Apply

Charges do not apply for the re-establishment of service following a fire, flood or other occurrence attributed to an act of God provided that:

(1) The service is of the same type as was provided prior to the fire, flood or other occurrence.

(2) The service is for the same customer.

(3) The service is at the same location on the same premises.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.5 Re-establishment of Service Following Fire, Flood or Other Occurrence (Cont'd)

(A) Nonrecurring Charges Do Not Apply (Cont'd)

(4) The re-establishment of service begins within 60 days after Telephone Company service is available. (The 60-day period may be extended a reasonable period if the renovation of the original location on the premises affected is not practical within the allotted time period).

(B) Nonrecurring Charges Apply

Nonrecurring Charges apply for establishing service at a different location on the same premises or at a different premises pending re-establishment of service at the original location.

2.4.6 Title or Ownership Rights

The payment of rates and charges by customers for the services offered under the provisions of this tariff does not assign, confer or transfer title or ownership rights to proposals or facilities developed or utilized, respectively, by the Telephone Company in the provision of such services.

2.4.7 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved*

The Telephone Companies will handle ordering, rating and billing of Access Services under this tariff where more than one Exchange Telephone Company is involved in the provision of Access Service as set forth in (A) or (B) following. The choice of either (A) or (B) shall be made by the Telephone Company and the Telephone Company will notify the customer which option will apply when the customer orders Access Service. The choice of (A) or (B) will be based on the interconnection arrangements between the Exchange Telephone Companies involved.

(A) When an Access Service is ordered by a customer where one end of the Transport element is in one Exchange Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, except for Access Services

* Switched Access Service usage other than Feature Group A and B, for exchange telephone companies that have not completed equal access conversion will be billed using Feature Group D rates specified in 6.8.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (Cont'd)

(A) (Cont'd)

provided with the use of Hubs, the Exchange Telephone Company in whose operating territory the end user is located will accept the order for the Access Service from the customer except for Switched Access Services ordered on a per line or per trunk basis. The Exchange Telephone Company in whose territory the first point of switching is located will accept the order for Feature Group A, B and D Switched Access Services ordered in lines or trunks. That Exchange Telephone Company that accepts the order will then determine the charges involved, arrange to provide the Access Service ordered and bill the charges in accordance with its Access Service tariff.

When an Access Service provided with the use of a Hub is ordered by a customer, the Exchange Telephone Company in whose territory the Hub is located will accept the order for the Access Service from the customer. That Exchange Telephone Company will then determine the charges involved, arrange to provide the Access Service ordered and bill the charges in accordance with its Access Service tariff.

(B) When an Access Service is ordered by a customer where one end of the Transport element is in one Exchange Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, each involved Exchange Telephone Company will accept the order for the Access Service from the customer. Each Exchange Telephone Company will provide its portion of the Transport element in its operating territory to an interconnection point (IP) with another Exchange Telephone Company. Each Exchange Telephone Company will determine the charges involved for its portion of the Access Service ordered and will bill such charges in accordance with its Access Service tariff. Where the premises of the ordering customer and at least one other customer premises involved in the order is in a different operating territory, the mileage used to determine the Transport element will be the mileage measured from the Telephone Company premises for one end of the Transport element in the Exchange Telephone Company operating territory to the Telephone Company premises for the other end of the Transport element in the other Exchange Telephone Company operating territory. The rate for the Transport element will be the rate in each Exchange Telephone Company's tariff for the mile band for the mileage

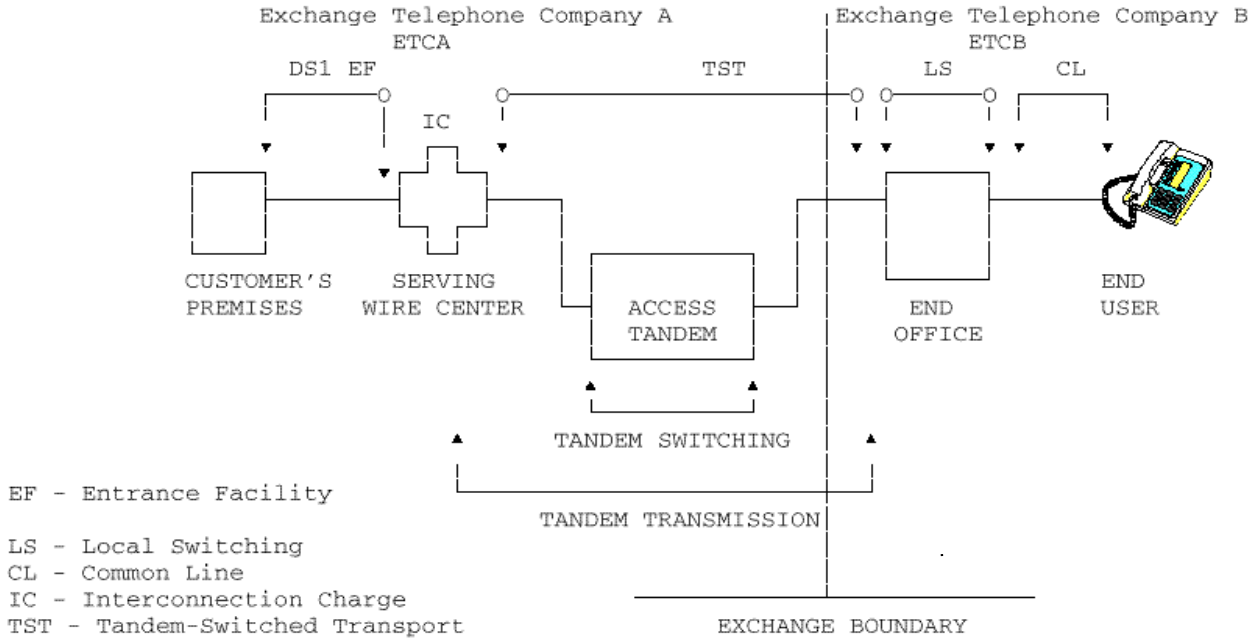
GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

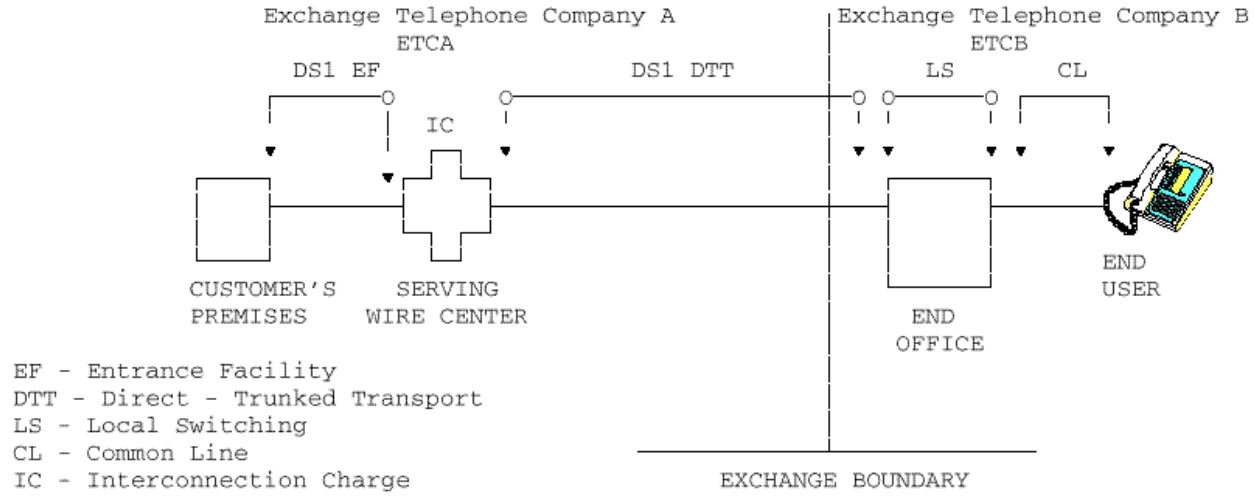
2.4.7 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (Cont'd)

(D) EXAMPLES

DS1 ENTRANCE FACILITY WITH TANDEM SWITCHED
TRANSPORT FOR FEATURE GROUP D SERVICE



DS1 ENTRANCE FACILITY WITH DS1 DIRECT - TRUNKED
TRANSPORT FOR FEATURE GROUP D SERVICE



GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (Cont'd)

(B) (Cont'd)

measured as set forth in the preceding sentence. Each Exchange Telephone Company's charge for the Transport element will be the product of the Exchange Telephone Company's rate for the mile band for the mileage measured between the two Telephone Company premises for the two ends of the Transport element and the mileage from the Exchange Telephone Company's premises to the interconnection point (IP) and divided by the sum of the mileage from the rating Exchange Telephone Company premises to the interconnection point (IP) and the mileage from the other involved Exchange Telephone Company premises to the interconnection point(s) (IP). All other appropriate charges in each Exchange Telephone Company's tariff are applicable.

The IP will be determined by the Exchange Telephone Companies involved and the IP will be listed in the National Exchange Carrier Association Tariff F.C.C. No. 4.

(C) When a Common Channel Signaling Access Service is provided, the Telephone Company in whose territory the STP is located will accept the order for service, determine any cable charges in accordance with its Access Service tariff.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.8 Quality Assurance

The Telephone Company will credit 100% of the nonrecurring charges for certain Intrastate Special Access Services when the Initial Confirmed Date Due of the order is not met and where the responsibility for the failure to meet the date is solely that of the Telephone Company. This credit allowance is applicable to the following Intrastate Special Access Services: Digital Data Service (DDS), DS1 High Capacity Service, DS3 High Capacity Services.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.8 Quality Assurance (Cont'd)

(A) Any credit to be granted to the customer for the Telephone Company's failure to meet the Initial Confirmed Date Due will be applied to the customer's monthly billing statement.

(B) The Initial Confirmed Date Due can only be changed by the customer.

(C) The Telephone Company is not responsible for and subsequently, will not allow credit for missed appointments when the following situations apply:

1. The customer requests an expedited order.

2. Other Telephone Companies are involved in the service installation.

3. The customer's premises is unaccessible.

4. The customer changes interface requirements.

5. The customer is not ready to accept the service.

6. Building facilities are not ready, e.g. space, cable support structures, building risers, entrance and other facilities to be provided by the builder or owner's subcontracted vendors.

7. The customer orders the termination point beyond the Network Interface.

8. Unavoidable service installation delays caused by work stoppages, civil disturbances, criminal actions, or occurrences attributed to an "Act of God", e.g. fire, flood, etc.

9. Services are provided under the General Services Tariff, Section 2.

2.5 Connections

2.5.1 General

Equipment and Systems (i.e., terminal equipment, multiline terminating systems and communications systems) may be connected with Switched and Special Access Service furnished by the Telephone Company where such connection is made in accordance with the provisions specified in Technical Reference Publication AS No. 1, and in 2.1 preceding.

GENERAL REGULATIONS

2.6 Definitions

Certain terms used herein are defined as follows:

Access Code

The term "Access Code" denotes a uniform seven-digit code assigned by the Telephone Company to an individual customer. The seven-digit code has the form 101XXXX, 950-1XXX or 950-0XXX.

Access Concentrator (AC)

The term "Access Concentrator" denotes that Public Data Network component which collects customer data information from many access lines, multiplexes them on to trunks for delivery to the packet switch and vice versa. The AC also performs the protocol conversion function for asynchronous access lines.

Access Minutes

The term "Access Minutes" denotes that usage of exchange facilities in intrastate service for the purpose of calculating chargeable usage. On the originating end of an intrastate call, usage is measured from the time the originating end user's call is delivered by the Telephone Company to and acknowledged as received by the customer's facilities connected with the originating exchange. On the terminating end of an intrastate call, usage is measured from the time the call is received by the end user in the terminating exchange. Timing of usage at both originating and terminating ends of an intrastate call shall terminate when the calling or called party disconnects, whichever event is recognized first in the originating and terminating end exchanges, as applicable.

Access Tandem

The term "Access Tandem" denotes a Telephone Company switching system that provides a concentration and distribution function for originating or terminating traffic between end offices and a customer's premises.

Answer/Disconnect Supervision

The term "Answer/Disconnect Supervision" denotes the transmission of the switch trunk equipment supervisory signal (off-hook or on-hook) to the customer's point of termination as an indication that the called party has answered or disconnected.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Asynchronous Protocol

The term "Asynchronous Protocol" denotes a type of transmission where information is sent at any speed and at random with no routing information.

Attenuation Distortion

The term "Attenuation Distortion" denotes the difference in loss at specified frequencies relative to the loss at 1004 Hz, unless otherwise specified.

Balance (100 Type) Test Line

The term "Balance (100 Type) Test Line" denotes an arrangement in an end office which provides for balance and noise testing.

Bit

The term "Bit" denotes the smallest unit of information in the binary system of notation.

Business Day

The term "Business Day" denotes the times of day that a company is open for business. Generally, in the business community these are 8:00 or 9:00 A.M. to 5:00 or 6:00 P.M., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, business day hours for the Telephone Company may vary based on Telephone Company policy, union contract and location.

Busy Hour Minutes of Capacity (BHMC)

The term "Busy Hour Minutes of Capacity" (BHMC) denotes the customer specified maximum amount of Switched Access Service and/or Directory Assistance Service access minutes the customer expects to be handled in an end office switch during any hour of an 8:00 A.M. to 11:00 P.M. period for the Feature Group and/or Directory Assistance Service ordered. This customer-furnished BHMC quantity is the input data the Telephone Company uses to determine the number of transmission paths for the Feature Group and/or Directory Assistance service ordered.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Call

The term "Call" denotes a customer attempt for which the complete address code (e.g., 0-, 911, or 10 digits) is provided to the serving dial tone office.

Carrier or Common Carrier

See Interexchange Carrier

CCS

The term "CCS" denotes a hundred call seconds, which is a standard unit of traffic load that is equal to 100 seconds of usage or capacity of a group of a group of servers (e.g., trunks).

Central Office

The term "Central Office" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks.

Central Office Prefix

The term "Central Office Prefix" denotes the first three digits (NXX) of the seven-digit telephone number assigned to a customer's Telephone Exchange Service when dialed on a local basis.

Centralized Automatic Reporting on Trunks Testing

The term "Centralized Automatic Reporting on Trunks Testing" denotes a type of testing which includes the capacity for measuring operational and transmission parameters.

Channel(s)

The term "Channel(s)" denotes an electrical or photonic, in the case of fiber optic-based transmission systems, communications path between two or more points of termination.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Channel Service Unit

The term "Channel Service Unit" denotes equipment which performs one or more of the following functions: termination of a digital facility, regeneration of digital signals, detection and/or correction of signal format error, and remote loop back.

Channelize

The term "Channelize" denotes the process of multiplexing-demultiplexing wider bandwidth or higher speed channels into narrower band-width or lower speed channels.

C-Message Noise

The term "C-Message Noise" denotes the frequency weighted average noise within an idle voice channel. The frequency weighting, called C-message, is used to simulate the frequency characteristic of the 500-type telephone and the hearing of the average subscriber.

C-Notched Noise

The term "C-Notched Noise" denotes the C-message frequency weighted noise on a voice channel with a holding tone, which is removed at the measuring end through a notch (very narrow band) filter.

Common Line

The term "Common Line" denotes a line, trunk, pay telephone line or other facility provided under the General Services and/or Local Exchange Services tariffs of the Telephone Company, terminated on a central office switch. A common line-residence is a line or trunk provided under the residence regulations of the Local Exchange Services Tariff. A common line-business is a line provided under the business regulations of the Local Exchange Services Tariff.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Communications System

The term "Communications System" denotes channels and other facilities which are capable of communications between terminal equipment provided by other than the Telephone Company.

Conventional Signaling

The term "Conventional Signaling" denotes the inter-machine signaling system which has been traditionally used in North America for the purpose of transmitting the called number's address digits from the originating end office to the switching machine which will terminate the call. In this system, all of the dialed digits are received by the originating switching machine, a path is selected, and the sequence of supervisory signals and outpulsed digits is initiated. No overlap outpulsing, ten-digit ANI, ANI information digits, or acknowledgement wink are included in this signaling sequence.

Customer(s)

The term "Customer(s)" denotes any individual, partnership, association, joint-stock company, trust, corporation, or governmental entity or other entity which subscribes to the services offered under this tariff, including both Interexchange Carriers (ICs) and end users.

Data Transmission (107 Type) Test Line

The term "Data Transmission (107 Type) Test Line" denotes an arrangement which provides for a connection to a signal source which provides test signals for one-way testing of data and voice transmission parameters.

Decibel

The term "Decibel" denotes a unit used to express relative difference in power, usually between acoustic or electric signals, equal to ten (10) times the common logarithm of the ratio of two signal powers.

Decibel Reference Noise C-Message Weighting

The term "Decibel Reference Noise C-Message Weighting" denotes noise power measurements with C-Message weighting in decibels relative to a reference 1000 Hz tone of 90 dB below 1 milliwatt.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Decibel Reference Noise C-Message Referenced to O

The term "Decibel Reference Noise C-Message Referenced to O" denotes noise power in "Decibel Reference Noise C-Message Weighting" referred to or measured at a zero transmission level point.

Detail Billing

The term "Detail Billing" denotes the listing of each message and/or rate element for which charges to a customer are due on a bill prepared by the Telephone Company.

Directory Assistance

The term "Directory Assistance" denotes the provision of telephone numbers by a Telephone Company operator when the operator location is accessed by a customer by dialing NPA + 555-1212 or 555-1212.

Direct Trunked Transport Facility

The term denotes a switched transport facility between a telephone company serving wire center and an end office or between a telephone company serving wire center and an access tandem that provides a customer with dedicated transport.

Dual Tone Multifrequency Address Signaling

The term "Dual Tone Multifrequency Address Signaling" denotes a type of signaling that is an optional feature of Switched Access Feature Group A. It may be utilized when Feature Group A is being used in the terminating direction (from the point of termination with the customer to the local exchange end office). An office arranged for Dual Tone Multifrequency Signaling would expect to receive address signals from the customer in the form of Dual Tone Multifrequency signals.

Echo Control

The term "Echo Control" denotes the control of reflected signals in a telephone transmission path.

Echo Path Loss

The term "Echo Path Loss" denotes the measure of reflected signal at a 4-wire point of interface without regard to the send and receive Transmission Level Point.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Echo Return Loss

The term "Echo Return Loss" denotes a frequency weighted measure of return loss over the middle of the voiceband (approximately 500 to 2500 Hz), where talker echo is most annoying.

Effective 2-Wire

The term "Effective 2-Wire" denotes a condition which permits the simultaneous transmission in both directions over a channel, but it is not possible to insure independent information transmission in both directions. Effective 2-wire channels may be terminated with 2-wire or 4-wire interfaces.

Effective 4-Wire

The term "Effective 4-Wire" denotes a condition which permits the simultaneous independent transmission of information in both directions over a channel. The method of implementing effective 4-wire transmission is at the discretion of the Telephone Company (physical, time domain, frequency-domain separation or echo cancellation techniques). Effective 4-wire channels may be terminated with a 2-wire interface at the customer's location. However, when terminated 2-wire, simultaneous independent transmission cannot be supported because the two-wire interface combines the transmission paths into a single path.

End Office Switch

The term "End Office Switch" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to trunks. Included are remote switching modules and remote switching systems served by a host office in a different exchange.

End User

The term "End User" denotes any customer of an intrastate telecommunications service that is not a carrier, except that a carrier shall be deemed to be an end user to the extent that such carrier uses a telecommunications service for administrative purposes, without making such service available to others, directly or indirectly.

Entrance Facility

The term denotes a Switched Transport Facility between a Telephone Company serving wire center and a customer premises that provides a customer with a dedicated transport.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Entry Switch

The term "Entry Switch" denotes the "first point of switching" as defined following.

Envelope Delay Distortion

The term "Envelope Delay Distortion" denotes a measure of the linearity of the phase versus frequency of a channel.

Equal Level Echo Path Loss

The term "Equal Level Echo Path Loss" (ELEPL) denotes the measure of Echo Path Loss (EPL) at a 4-wire interface which is corrected by the difference between the send and receive Transmission Level Point (TLP). [ELEPL = EPL - TLP (send) + TLP (receive)]

Exchange

The term "Exchange" denotes a unit generally smaller than a Local Access and Transport Area, established by the Telephone Company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within that area. One or more designated exchanges comprise a given Local Access and Transport Area.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Expected Measured Loss

The term "Expected Measured Loss" denotes a calculated loss which specifies the end-to-end 1004-Hz loss on a terminated test connection between two readily accessible manual or remote test points. It is the sum of the inserted connection loss and test access loss including any test pads.

Field Identifier

The term "Field Identifier" denotes two to four characters that are used on service orders to convey specific instructions. Field Identifiers may or may not have associated data. Selected Field Identifiers are used in Telephone Company billing systems to generate nonrecurring charges.

First Come - First Served

The term "First Come - First Served" denotes a procedure followed when a shortage of facilities or equipment occurs, such that an Access Service ordered cannot be installed. The orders delayed by the shortage of facilities will be prioritized according to the sequence in which they were received. That is, when facilities or equipment become available, the first order received will be the first order processed.

First Point of Switching

The term "First Point of Switching" denotes the first Telephone Company location at which switching occurs on the terminating path of a call proceeding from the customer premises to the terminating end office and, at the same time, the last Telephone Company location at which switching occurs on the originating path of a call proceeding from the originating end office to the customer premises.

Frequency Shift

The term "Frequency Shift" denotes the change in the frequency of a tone as it is transmitted over a channel.

Grandfathered

The term "Grandfathered" denotes Terminal Equipment, Multiline Terminating Systems and Protective Circuitry directly connected to the facilities utilized to provide services under the provisions of this tariff, and which are considered grandfathered under Part 68 of the F.C.C.'s Rules and Regulations.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Host Office

The term "Host Office" denotes an electronic switching system which provides call processing capabilities for one or more Remote Switching Modules or Remote Switching Systems.

Immediately Available Funds

The term "Immediately Available Funds" denotes a corporate or personal check drawn on a bank account and funds which are available for use by the receiving party on the same day on which they are received and include U.S. Federal Reserve bank wire transfers, U.S. Federal Reserve notes (paper cash), U.S. coins, U.S. Postal Money Orders and New York Certificates of Deposit.

Impedance Balance

The term "Impedance Balance" denotes the method of expressing Echo Return Loss and Singing Return Loss at a 4-wire interface whereby the gains and/or loss of the 4-wire portion of the transmission path, including the hybrid, are not included in the specification.

Impulse Noise

The term "Impulse Noise" denotes any momentary occurrence of the noise on a channel over a specified level threshold. It is evaluated by counting the number of occurrences which exceed the threshold.

Individual Case Basis

The term "Individual Case Basis" denotes a condition in which the regulations, if applicable, rates and charges for an offering under the provisions of this tariff are developed based on the circumstances in each case.

Inserted Connection Loss

The term "Inserted Connection Loss" denotes the 1004 Hz power difference (in dB) between the maximum power available at the originating end and the actual power reaching the terminating end through the inserted connection.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Interexchange Carrier (IC) or Interexchange Common Carrier

The terms "Interexchange Carrier" (IC) or "Interexchange Common Carrier" denotes any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire in intra-state communication by wire or radio, between two or more exchanges.

Intermodulation Distortion

The term "Intermodulation Distortion" denotes a measure of the nonlinearity of a channel. It is measured using four tones, and evaluating the ratios (in dB) of the transmitted composite four-tone signal power to the second-order products of the tones (R2), and the third-order products of the tones (R3).

Interstate Communications

The term "Interstate Communications" denotes both interstate and foreign communications.

Intrastate Communications

The term "Intrastate Communications" denotes any communications within a state subject to oversight by a state regulatory commission as provided by the laws of the state involved.

Line-Side Connection

The term "Line-Side Connection" denotes a connection of a transmission path to the line side of a local exchange switching system.

Local Access and Transport Area

The term "Local Access and Transport Area" denotes a geographic area established for the provision and administration of communications service. It encompasses one or more designated exchanges, which are grouped to serve common social, economic and other purposes.

Local Tandem Switch

The term "Local Tandem Switch" denotes a local Telephone Company switching unit by which local or access telephonic communications are switched to and from an end office switch.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Logical Channel

The term "Logical Channel" denotes a communications channel through or link in the network that allows simultaneous transmission of sequenced data packets through the network. No circuit capacity is preassigned to a logical channel. Capacity is made available as data is transmitted.

Loop Around Test Line

The term "Loop Around Test Line" denotes an arrangement utilizing a Telephone Company central office to provide a means to make certain two-way transmission tests on a manual basis. This arrangement has two central office terminations, each reached by means of separate telephone numbers and does not require any specific customer premises equipment. Equipment subject to this test arrangement is at the discretion of the customer.

Loss Deviation

The term "Loss Deviation" denotes the variation of the actual loss from the designed value.

Message

The term "Message" denotes a "call" as defined preceding.

Milliwatt (102 Type) Test Line

The term "Milliwatt (102 Type) Test Line" denotes an arrangement in an end office which provides a 1004 Hz tone at 0 dBm0 for one-way transmission measurements towards the customers premises from the Telephone Company end office.

Modem

The term "Modem" denotes the contraction of modulator-demodulator. A device which modulates and demodulates signals transmitted over communication facilities.

MTS/WATS [1] - Grandfathered (C)

The term "MTS/WATS" denotes that service provided under American Telephone and Telegraph Company Tariffs filed with the S.C.C. of Virginia.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

MTS/WATS Type [1] – Grandfathered (C)

The term "MTS/WATS Type" denotes services like MTS/WATS provided by other than American Telephone and Telegraph Company.

Network Address

The term "Network Address" denotes the numeric character string used to specify the location of the called customer.

Network Control Signaling

The term "Network Control Signaling" denotes the transmission of signals used in the telecommunications system which perform functions such as supervision (control, status, and charge signals), address signaling (e.g., dialing), calling and called number identifications, rate of flow, service selection error control and audible tone signals (call progress signals indicating reorder or busy conditions, alerting, coin denominations, coin collect and coin return tones) to control the operation of the telecommunications system.

Nonsynchronous Test Line

The term "Nonsynchronous Test Line" denotes an arrangement in step-by-step end offices which provides operational tests which are not as complete as those provided by the synchronous test lines but can be made more rapidly.

North American Numbering Plan

The term "North American Numbering Plan" denotes a three-digit area (Numbering Plan Area) code and a seven-digit telephone number made up of a three-digit central office code plus a four-digit station number.

Off-hook

The term "Off-hook" denotes the active condition of Switched Access or an Exchange Service line.

On-hook

The term "On-hook" denotes the idle condition of Switched Access or an Exchange Service line.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

2.6 Definitions (Cont'd)

Open Circuit Test Line

The term "Open Circuit Test Line" denotes an arrangement in an end office which provides an ac open circuit termination of a trunk or line by means of an inductor of several Henries.

Operator Services System

The term "Operator Services System" denotes equipment capable of processing certain kinds of traffic originating or terminating to an end office; this processing may take place either with or without an operator's assistance. Use of such equipment includes call rating and charge recording functions, operator assistance functions, coin control and collection functions, and automatic or manual identification of calling line number. (D)

Originating Direction

The term "Originating Direction" denotes the use of access service for the origination of calls from an end user premises to an IC premises.

Out of Band Signaling

Out of Band Signaling denotes an exchange access signaling feature which allows customers to exchange call control and signaling information over a communication path which is separate from the message path.

Overlap Outpulsing

The term "Overlap Outpulsing" denotes that feature of the exchange access signaling system which permits initiation of pulsing to the customer's premises before the calling subscriber has completed dialing an originating call.

Packet

The term "Packet" denotes the continuous sequence of binary digits of information which is switched through the network as an integral unit. Consists of up to 1024 bits (128 octets) of customer data plus additional transmission and error control information.

Packet Switch (Effective 10/02/06 - **LA-3)

The term "Packet Switch" denotes the vehicle of the Public Data Network which performs the switching function. For Public Data Network service this is a Telephone Company facility Hub.

** See General Regulations Tariff, S.C.C –Va. –No. 1, Section 3, Page 1. Effective 10/02/06, this service is grandfathered applicable to all customers.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Phase Jitter

The term "Phase Jitter" denotes the unwanted phase variations of a signal.

Point of Termination

The term "Point of Termination" denotes the point of demarcation within a customer-designated property at which the Telephone Company's responsibility for the provision of Access Service ends.

Premises

The term "Premises" denotes a building or buildings on continuous property (except Railroad Right-of-Way, etc.) not separated by a public highway.

Protocol

The term "Protocol" denotes a set of rules conducting interactions between two or more parties. These rules consist of syntax (header structure) semantics (actions and reactions that are supposed to occur) and timing (relative ordering and direction of states and events).

Registered Equipment

The term "Registered Equipment" denotes the customer's premises equipment which complies with and has been approved within the Registration Provisions of Part 68 of the F.C.C.'s Rules and Regulations.

Remote Switching Modules and/or Remote Switching Systems

The term "Remote Switching Modules and/or Remote Switching Systems" denotes small, remotely controlled electronic end office switches which obtain their call processing capability from an ESS-type Host Office. The Remote Switching Modules and/or Remote Switching Systems cannot accommodate direct trunks to an IC.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Return Loss

The term "Return Loss" denotes a measure of the similarity between the two impedances at the junction of two transmission paths. The higher the return loss, the higher the similarity.

Seven-digit Manual Test Line

The term "Seven-digit Manual Test Line" denotes an arrangement which allows the customer to select balance, milliwatt and synchronous test lines by manually dialing a seven-digit number over the associated access connection.

Shortage of Facilities or Equipment

The term "Shortage of Facilities or Equipment" denotes a condition which occurs when the Telephone Company does not have appropriate cable, switching capacity, bridging or multiplexing equipment, etc., necessary to provide the Access Service requested by the customer.

Short Circuit Test Line

The term "Short Circuit Test Line" denotes an arrangement in an end office which provides for an ac short circuit termination of a trunk or line by means of a capacitor of at least four microfarads.

Signal-to-C-Notched Noise Ratio

The term "Signal-to-C-Notched Noise Ratio" denotes the ratio in dB of a test signal to the corresponding C-Notched Noise.

Signal Transfer Point

The term Signal Transfer Point (STP) denotes a specialized switch which provides SS7 network access and performs SS7 message routing and screening.

Signaling Point of Interface

The term Signaling Point of Interface denotes the customer designated location, in the same LATA as the Telephone Company STP, where SS7 signaling information is exchanged between the Telephone Company and the customer.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Signaling System 7

The term Signaling System 7 (SS7) denotes common channel out of band signaling using the SS7 protocol developed by the Consultative Committee for International Telephone and Telegraph (CCITT) and the American National Standards Institute (ANSI).

Singing Return Loss

The term "Singing Return Loss" denotes the frequency weighted measure of return loss at the edges of the voiceband (200 to 500 Hz and 2500 to 3200 Hz), where singing (instability) problems are most likely to occur.

Special Order

The term "Special Order" denotes an order for a Billing and Collection Service or an order for a Directory Assistance Service.

Subtending End Office of an Access Tandem

The term "Subtending End Office of an Access Tandem" denotes an end office that has final trunk group routing through that tandem.

Synchronous Test Line

The term "Synchronous Test Line" denotes an arrangement in an end office which performs marginal operational tests of supervisory and ring-tripping functions.

Tandem Switched Transport

The term Tandem Switched Transport consists of circuits dedicated to the use of a single customer from the serving wire center to the tandem and circuits used in common by multiple customers from the tandem to an end office.

Terminating Direction

The term "Terminating Direction" denotes the use of Access Service for the completion of calls from an IC premises to an end user premises.

Transmission Measuring (105 Type) Test Line/Responder

The term "Transmission Measuring (105 Type) Test Line/Responder" denotes an arrangement in an end office which provides far-end access to a responder and permits two-way loss and noise measurements to be made on trunks from a near end office.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Transmission Path

The term "Transmission Path" denotes an electrical path capable of transmitting signals within the range of the service offering, e.g., a voice grade transmission path is capable of transmitting voice frequencies within the approximate range of 300 to 3000 Hz. A transmission path is comprised of physical or derived facilities consisting of any form or configuration of plant typically used in the telecommunications industry.

Trunk

The term "Trunk" denotes a communications path connecting two switching systems in a network, used in the establishment of an end-to-end connection.

Trunk Group

The term "Trunk Group" denotes a set of trunks which are traffic engineered as a unit for the establishment of connections between switching systems in which all of the communications paths are interchangeable.

Trunk-Side Connection

The term "Trunk-Side Connection" denotes the connection of a transmission path to the trunk side of a local exchange switching system.

Two-wire to Four-wire Conversion

The term "Two-wire to Four-wire Conversion" denotes an arrangement which converts a four-wire transmission path to a two-wire transmission path to allow a four-wire facility to terminate in a two-wire entity (e.g., a central office switch).

Uniform Service Order Code

The term "Uniform Service Order Code" denotes a three- or five-character alphabetic, numeric, or an alphanumeric code that identifies a specific item of service or equipment. Uniform Service Order Codes are used in the Telephone Company billing system to generate recurring rates and nonrecurring charges.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

V and H Coordinates Method

The term "V and H Coordinates Method" denotes a method of computing airline miles between two points by utilizing an established formula which is based on the vertical and horizontal coordinates of the two points.

Virtual Call

The term "Virtual Call" denotes a user facility in which a call initiation procedure and a call terminating procedure determines a period of communication between two network addresses in which a user data is transferred.

Virtual Circuit

The term "Virtual Circuit" denotes the logical channels established as a result of the call initiation procedure to a network address that exists for a period of time.

Wire Center

The term "Wire Center" denotes a building in which one or more central offices, used for the provision of Exchange Services, are located.

X.25 Packet Mode Protocol (Effective 10/02/06 - **LA-3)

The term "X.25 Packet Mode Protocol" denotes an international standard developed by Consultative Committee for International Telephone and Telegraph that provides the foundation for public switched network.

X.75 Packet Mode Protocol (Effective 10/02/06 - **LA-3)

The term "X.75 Packet Mode Protocol" denotes an international standard developed by Consultative Committee for International Telephone and Telegraph that provides the foundation for interconnection of individual Packet Switched Networks.

** See General Regulations Tariff, S.C.C –Va. –No. 1, Section 3, Page 1. Effective 10/02/06, this service is grandfathered applicable to all customers.

CARRIER COMMON LINE ACCESS SERVICE

The Telephone Company will provide Carrier Common Line Access Service (Carrier Common Line Access) to customers.

3.1 General Description

Carrier Common Line Access provides for the use of Telephone Company common lines by customers for access to end users to furnish intrastate telecommunications service.

Carrier Common Line Access is provided where the customer obtains Telephone Company Switched Access Service under this tariff.

In addition, a Special Access Surcharge as specified in Section 7 following will apply to jurisdictionally intrastate special access facilities provided by the Telephone Company to a customer, in accordance with regulations as specified in Section 7 following.

Special Access facilities are intrastate facilities provided to customers as specified in Section 7 of this tariff.

The Special Access Surcharge will apply to all special access facilities, unless exempted as specified in Section 7 following, terminated at an end user's PBX or other devices, that connect the special access facility with local exchange lines or trunks, irrespective of whether the interconnection capability exists in the customer's premises equipment or in a Centrex Service switch located on the Telephone Company's premises.

3.2 Limitations

(A) A telephone number is not provided with Carrier Common Line Access.

(B) Detail billing is not provided for Carrier Common Line Access.

(C) Directory listings are not included in the rates and charges for Carrier Common Line Access.

(D) Intercept arrangements are not included in the rates and charges for Carrier Common Line Access.

CARRIER COMMON LINE ACCESS SERVICE

3.3 Undertaking of the Telephone Company

(A) Where the customer is provided with Switched Access Service under other sections of this tariff, the Telephone Company will provide the use of Telephone Company common lines by a customer for access to end users at rates and charges as set forth in 3.7 following.

(B) The Switched Access Service provided by the Telephone Company includes the Switched Access Service provided for both interstate and intrastate communications and the Carrier Common Line Access rates and charges as set forth in 3.7 following apply in accordance with the regulations as set forth in 3.6(F) following.

3.4 Obligations of the Customer

(A) The Switched Access Service associated with Carrier Common Line Access shall be ordered by the customer under other sections of this tariff.

(B) The customer facilities at the premises of the ordering customer shall provide the necessary on-hook and off-hook supervision.

(C) Unless the customer reports 1) intrastate use as set forth in following or 2) Feature Group A, B or D Switched Access Service as set forth in (F) following, all Switched Access Service provided to the customer will be subject to Carrier Common Line Access charges.

(D) When the customer reports interstate and intrastate use of Switched Access Service, the associated Carrier Common Line Access used by the customer for intrastate will be determined as set forth in 3.6(F) following.

(E) When the customer obtains special access facilities as set forth in 3.1 preceding, the facilities may be exempted from the Special Access Surcharge as set forth in Section 7 following. The customer who obtains such facilities from the Telephone Company shall furnish the exemption certification. Exemption certification shall be in the form of a written notification to the Telephone Company. The notification may be provided 1) at the time the special access facility is obtained or 2) at such time as the facility is reterminated to a device not capable of interconnecting to the local exchange network or 3) at such time as the special access facility becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges. Exemption certification can also be provided for special access lines obtained prior to the effective date of the surcharge.

CARRIER COMMON LINE ACCESS SERVICE

3.4 Obligations of the Customer (Cont'd)

(E) (Cont'd)

If a written certification is not received at the time private line facility 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 Section 7 following.

3.5 Payment Arrangements

(A) The Telephone Company will bill the Carrier Common Line Access. The bill day (i.e., the billing date of the bill) in a month for each customer account will be established by the Telephone Company. Payment is due from the customer 31 days after the bill day date (payment date) or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, and is payable in immediately available funds. If such payment date is a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the second Tuesday in November, and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment will be due from the customer as follows:

If such payment date falls on Sunday or on a Holiday which is observed on a Monday, the payment date shall be the first non- Holiday day following such Sunday or Holiday. If such payment date falls on a Saturday or on a Holiday which is observed on Tuesday, Wednesday, Thursday or Friday, the payment date shall be the last non-Holiday day preceding such Saturday or Holiday.

CARRIER COMMON LINE ACCESS SERVICE

3.5 Payment Arrangements (Cont'd)

(B) Further, if any portion of the Carrier Common Line Access payment is received by the Telephone Company after the payment date as set forth in (A) preceding, or if any portion of the Carrier Common Line Access payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company, then a late payment penalty shall be due to the Telephone Company. The late payment penalty shall be the portion of the Carrier Common Line Access payment not received by the payment date times a late factor. The late factor shall be the lesser of:

(1) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company, or

(2) 0.000590 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

(C) In the event a billing dispute concerning a month's Carrier Common Line Access billed to the customer by the Telephone Company is resolved in favor of the Telephone Company, any payments withheld pending settlement of the dispute shall be subject to the late payment penalty set forth in (B) preceding. If the customer disputes the bill on or before the payment date, and pays the undisputed amount on or before the payment date, any late payment charge for the disputed amount will not start until 10 days after the payment date.

If the billing dispute is resolved in favor of the customer, no late payment penalty will apply to the disputed amount. In addition, if the customer disputes the billed amount and pays the total amount (i.e., the nondisputed amount and the disputed amount) on or before the payment date and the billing dispute is resolved in the favor of the customer, the customer will receive a credit for a disputed amount penalty from the billing entity if the billing dispute is not resolved within 10 working days following the payment date or the date the customer furnishes to the billing entity documentation to support its claim plus 10 working days, whichever date is the later date. The disputed amount penalty shall be the disputed amount resolved in the customer's favor times a penalty factor.

CARRIER COMMON LINE ACCESS SERVICE

3.6 Rate Regulations

(A) The Carrier Common Line Access Charge will be billed to each Switched Access Service provided under this tariff in accordance with the regulations as set forth in (F) following except as set forth in (E) following.

(B) When access minutes are used to determine the Carrier Common Line Access Charge, they will be accumulated using call detail recorded by Telephone Company equipment except as set forth in (C) following and TSPS call detail such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls recorded by the customer. The Telephone Company measuring and recording equipment except as set forth in (C) following will be associated with end office or local tandem switching equipment and will record each originating and terminating access minute where answer supervision is received. The accumulated access minutes will be summed by line group or end office, whichever type of account is used by the Telephone Company, for each customer and then rounded to the nearest minute. For FX/ONAL Feature Group A, the access minutes will be reported on a line by line basis.

(C) When Carrier Common Line Access is provided in association with FX/ONAL Feature Group A Switched Access Service in Telephone Company end offices that are not equipped for measurement capabilities, an assumed average intrastate access minutes will be used to determine the Carrier Common Line Access Charge. The assumed average intrastate access minutes are as follows:

CARRIER COMMON LINE ACCESS SERVICE

3.6 Rate Regulations (Cont'd)

(C) (Cont'd)

(1) When a Switched Access Service is provided where neither the originating access minutes nor the terminating access minutes are measured, the assumed average intrastate access minutes are 2168 minutes. When originating-only Switched Access Service is provided where the originating access minutes are not measured, the originating assumed average intrastate access minutes are 1024 minutes and no terminating access minutes will apply. When terminating-only Switched Access Service is provided where the terminating access minutes are not measured, the terminating assumed average intrastate access minutes are 1144 minutes and no originating access minutes will apply.

(2) When a Switched Access Service arranged for both originating and terminating use is provided where the terminating access minutes are measured but the originating access minutes are not measured, the assumed average originating access minutes are 1024 originating minutes of use for each such FX/ONAL FGA provided.

(3) When a Switched Access Service arranged for both originating and terminating use is provided where the originating access minutes are measured but the terminating access minutes are not measured, the assumed average terminating access minutes are 1144 terminating minutes of use for each such FX/ONAL FGA provided.

The assumed average intrastate access minutes as set forth in (1), (2) and (3) preceding, apply in the operating area of the Telephone Company except when the Telephone Company specifies a different number of assumed average intrastate access minutes as set forth in 6.7.5 following. When the Telephone Company specifies a different number of assumed average intrastate access minutes in 6.7.5 following, the appropriate assumed average intrastate access minutes as set forth 6.7.5 following will be used in lieu of the assumed average intrastate access minutes as set forth in (1), (2) and (3) preceding in the Telephone Company's operating area to determine the Carrier Common Line Access Charge for the FX/ONAL FGA involved.

(D) Surcharge for Special Access Service

See Section 7 of this tariff.

(E) When the customer reports interstate and intrastate use of in-service Switched Access Service, the Carrier Common Line Access Charge will be billed only to interstate Switched Access Service lines, trunks or access minutes based on the data reported by the customer as specified in 2.3.10. The interstate Switched Access Service lines, trunks or access minutes will, after adjustment as specified in (D) preceding, when necessary, be used to determine the Carrier Common Line Access Charge as specified in (F) following.

CARRIER COMMON LINE ACCESS SERVICE

3.6 Rate Regulations (Cont'd)

(F) Carrier Common Line Access Charge

(1) The Carrier Common Line Access Charge in 3.7 will be applied per line, per month, based on the total number of lines in service from the most current end of month data available from Verizon Virginia's billing system. For Centrex Service, an 8 to 1 ratio of Centrex lines to lines is used to develop an equivalent number of Centrex lines.

(2) The charges developed as described in 3.6(F)(1) will be allocated to each carrier monthly, based on the relationship of each carrier's minutes of use to the total minutes of use.

3.7 Rates and Charges

Carrier Common Line Access Charge, per access line per month	$0.00

END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.1 Presubscription Charge Application (Cont'd)

(A) Presubscription Change Charge Billing Option (Cont'd)

1. Direct Billing

The direct billing option is available when an ITP initiates an intraLATA PIC change order.

The ITP can designate direct billing on any intraLATA PIC change orders it chooses. The nonrecurring charge for a change in presubscription will then be assessed to the ITP, instead of the End User.

The direct billing option is not available for orders placed via the Telephone Company's Residence, Business or Equal Access Service Centers.

2. Reverse Billing

The Reverse Billing Option is available to ITP's for End User-initiated intraLATA PIC change orders placed at the Telephone Company's Residence, Business or Equal Access Service Centers. The nonrecurring charge for all of the ITP's End User-initiated intraLATA PIC change orders placed at the Telephone Company's Residence, Business or Equal Access Service Centers will be assessed to the ITP, instead of the End User as specified in section 4.2.4.(A) following.

The ITP must notify the Telephone Company in writing of its election to establish and/or cancel the Reverse Billing option. Establishment and/or cancellation will be effective within ten (10) business days from the date the Telephone Company receives written notification and must be in effect for a minimum of six months.

END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription

These rates and regulations pertain to IntraLATA Toll Providers (ITP) other than Verizon.

IntraLATA toll presubscription is a procedure whereby an end user or a Pay Telephone Service Provider may select and designate an IntraLATA Toll Provider (ITP) to access intraLATA toll calls without dialing an access code. The end user or Pay Telephone Service Provider may designate an ITP for intraLATA toll, a different carrier for interLATA toll, or the same carrier for both. This ITP is referred to as the end user's or Pay Telephone Service Provider's preferred intraLATA toll provider.

Each carrier will have one or more access codes assigned to it for various types of service. When an end user or Pay Telephone Service Provider selects a carrier as its preferred intraLATA toll provider, only one access code of that carrier may be incorporated into the switching system of the Telephone Company permitting access to that carrier by the end user or Pay Telephone Service Provider without dialing an access code. Should the same end user or Pay Telephone Service Provider wish to use other services of the same carrier, it will be necessary for the end user or Pay Telephone Service Provider to dial the necessary access code(s) to reach that carrier's other service(s).

An ITP must use Feature Group D (FGD) Switched Access Service to qualify as an intraLATA toll provider. All ITPs must submit a Letter of Intent (LOI) to the Telephone Company at least twenty days prior to the intraLATA toll presubscription conversion date or, if later, forty-five days prior to the date on which the carrier proposes to begin participating in intraLATA toll presubscription.

Selection of an ITP by an end user or Pay Telephone Service Provider is subject to the terms and conditions following.

4.2.1 Presubscription Charge Application

(A) Presubscription Change Charge Billing Option

At the option of the ITP, the nonrecurring charge for a change in intraLATA toll presubscription, as provided in 4.2.4(A) following, may be billed to the ITP, instead of the end user.

END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.1 Presubscription Charge Application (Cont'd)

(B) Existing end users or Pay Telephone Service Providers may exercise an initial free presubscription choice, either by contacting the Telephone Company or by contacting the ITP directly. The initial free choice must be made within ninety days following implementation of intraLATA toll presubscription. End user or Pay Telephone Service Provider choices which constitute exercising the free choices are:

- Designating an ITP as their primary carrier, thereby requiring no access code to access that ITP's service. Other carriers are accessed by dialing 1010XXXX or other required codes.

- Choosing no carrier as a primary carrier, thus requiring 1010XXXX code dialing to access all ITPs. This choice can be made by directly contacting the Telephone Company.

Following an existing end user's or Pay Telephone Service Provider's free selection or any change made more than ninety days after presubscription is implemented is subject to a nonrecurring charge, as set forth in 4.2.4(A) following.

END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.1 Presubscription Charge Application (Cont'd)

4.2.2 Unauthorized Preferred Carrier Change

(A) An unauthorized preferred carrier change is a change in the preferred intraLATA toll provider that the end user or Pay Telephone Service Provider denies authorizing.

If an end user or Pay Telephone Service Provider denies authorizing a change in intraLATA toll presubscription as submitted by the alleged unauthorized toll provider, the alleged unauthorized toll provider will be assessed the intraLATA toll presubscription change charge as specified in 4.2.4 (A) for:

- The previously disputed change charge to the end user or Pay Telephone Service Provider, and
- The restoral change charge for returning the end user or Pay Telephone Service Provider to the previous preferred intraLATA toll provider.

END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.1 Presubscription Charge Application (Cont'd)

(C) New end users or Pay Telephone Service Providers who subscribe to service after the presubscription implementation date (including an existing customer who orders an additional line) will be asked to select a primary ITP when they place an order for Telephone Company Exchange Service. If a customer cannot decide upon an intraLATA toll carrier at the time, the customer will have thirty days following completion of the service request to make an intraLATA PIC choice without charge. In the interim, the customer will be assigned a "No-PIC" and will have to dial an access code to make intraLATA toll calls. The free selection period available to new end users or Pay Telephone Service Providers is the period within thirty days of installation of the new service.

Initial free selections available to new end users or Pay Telephone Service Providers are:

- Designating an ITP as their primary carrier, thereby requiring no access code to access that ITP's service. Other carriers are accessed by dialing 1010XXXX or other required codes.

- Choosing no carrier as a primary carrier, thus requiring 1010XXXX code dialing to access all ITPs. This choice can be made by directly contacting the Telephone Company. In addition, new end users or Pay Telephone Service Providers that do not select a preferred carrier will be assigned a "No-Pic".

  Following a new end user's or Pay Telephone Service Provider's initial free selection, any subsequent selection made following implementation of intraLATA toll presubscription is subject to a nonrecurring charge, as set forth in 4.2.4 (A) following.

(D) If an ITP elects to discontinue Feature Group D service after implementation of the intraLATA toll presubscription option, the ITP is obligated to contact, in writing, all end users or Pay Telephone Service Providers who have selected the canceling ITP as their preferred intraLATA toll provider. The ITP must inform the end users or Pay Telephone Service Providers that it is canceling its Feature Group D service, request that the end user select a new ITP, and state that the canceling ITP will pay the PIC change charge, as provided in 4.2.4 (A) following. The ITP must provide written notification to Frontier Virginia, Inc. that this activity has taken place.

END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.3 Coin Sent-Paid IntraLATA Toll Presubscription

Coin sent-paid intraLATA toll calls provides the ability for the Telephone Company to route directly-dialed coin sent-paid intraLATA toll from a Network Controlled Coin Line to the 0+ presubscribed provider or to its subcontracted provider. The presubscribed provider may: a) receive all intraLATA toll calls originating from a Network Controlled Coin Line; b) select one subcontracted provider per LATA to receive the coin sent-paid intraLATA traffic; or c) continue to default the coin sent-paid intraLATA toll traffic to the existing carrier handling coin sent-paid intraLATA toll calls from a Network Controlled Coin Line until the 0+ presubscribed provider elects to handle such traffic. 0+ presubscribed providers choosing to either carry or subcontract coin sent-paid intraLATA toll calls must provide a LOI to the Telephone Company.

If the 0+ presubscribed provider does not submit a LOI specifying the routing for intraLATA toll calls, all coin sent-paid intraLATA traffic will continue to be routed to the existing coin sent-paid intraLATA carrier until such time as the 0+ presubscribed provider submits a LOI, followed by an Access Service Request. If the 0+ presubscribed provider subcontracts the coin sent-paid intraLATA toll calls, the presubscribed provider remains responsible for all 0+ and direct-dialed intraLATA toll calls originating from a Network Controlled Coin Line.

If the 0+ presubscribed provider subcontracts the coin sent-paid intraLATA toll traffic, a LOA from the 0+ presubscribed provider or the subcontracted provider must be delivered to the Telephone Company certifying that the sub-contracted provider agrees to accept and transport the coin sent-paid intraLATA toll calls traffic from a Network Controlled Coin Line prior to routing such traffic to the subcontracted provider. If the 0+ presubscribed provider selects a subcontracted provider to handle 1+ coin sent-paid intraLATA traffic from a Network Controlled Coin Line, any arrangements will be solely between the presubscribed provider and its subcontracted provider.

Where a presubscribed provider which handles 0+ intraLATA traffic from a Network Controlled Coin Line selects, on a LATA-by-LATA basis, a subcontracted provider to handle the coin sent-paid intraLATA traffic, it shall be the sole duty and obligation of the 0+ presubscribed intraLATA toll provider to make any and all arrangements for access billing and settlement with the sub-contracted provider. The Telephone Company shall be indemnified, defended and held harmless by the presubscribed provider and the subcontracted provider for any and all claims arising out of any act or omission of the presubscribed provider and/or subcontracted provider relating to access billing, settlement of arrangements and any other issue concerning the relationship between the presubscribed provider and its subcontracted provider.

END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.4 IntraLATA Toll Presubscription Charge Waiver Offering

A waiver will apply for each qualified Frontier Virginia, Inc. business Dial Tone Line or PBX trunk for which customers change their intraLATA toll provider to Frontier Virginia, Inc.

Qualifying customers are business customers who change their presubscribed intraLATA toll provider to Frontier Virginia, Inc.

Qualifying customers will receive a waiver of the charge for the intraLATA Toll presubscription.

This offer does not apply to qualifying customer Dial Tone Line(s) or PBX Trunk(s) for which presubscribed intraLATA toll service is being restored to Frontier Virginia, Inc. in order to correct an unauthorized transfer to another intraLATA toll provider.

4.2.5 Rates and Charges (T)

	RATE
(A) The charge for a change in IntraLATA Toll Presubscription.	$ 5.00

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.1 General

This section sets forth the regulations and order related charges for Access Orders for Switched and Special Access Services. These charges are in addition to other applicable charges as set forth in other sections of this tariff.

An Access Order is an order to provide the customer with Switched Access Service or Special Access Service or to provide changes to existing services.

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. All details for services for a particular order must be identical except for those for multipoint service.

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: order negotiation, order confirmation, interactive design, installation and billing.

5.1.2 Provision of Other Services

(A) Testing Service, Additional Labor and Special Facilities Routing shall be ordered with an Access Order or as set forth in (B) following. The rates and charges for these services, as set forth in other sections of this tariff, will apply in addition to the ordering charges set forth in this section and the rates and charges for the Access Service with which they are associated.

(B) With the agreement of the Telephone Company, the items listed in (A) preceding may subsequently be added to the order at any time, up to and including the service date for the Access Service. When added subsequently, charges for a design change as set forth in 5.2.2(C) following will apply when an engineering review is required.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.1 General (Cont'd)

5.1.2 Provision of Other Services (Cont'd)

(C) Additional Engineering is not an ordering option, but will be applied to an Access Order when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer request. Additional Engineering will only be required as set forth in 13.1 following. When it is required, the customer will be so notified and will be furnished with a written statement setting forth the justification for the Additional Engineering as well as an estimate of the charges. If the customer agrees to the Additional Engineering, a firm order will be established. If the customer does not want the service or facilities after being notified that Additional Engineering of Telephone Company facilities is required, the order will be withdrawn and no charges will apply. Once a firm order has been established, the total charge to the customer for the Additional Engineering may not exceed the estimated amount by more than 10%.

The regulations, rates and charges for Additional Engineering are as set forth in 13.1 following and are in addition to the regulations, rates and charges specified in this section.

5.1.3 Special Construction

The regulations, rates and charges for special construction are set forth in the General Services Tariff for Construction Charges and are in addition to the regulations, rates and charges specified in this section.

5.2 Access Order

An Access Order is used by the Telephone Company to provide a Customer Access Service as follows.

Switched Access Services as specified in Section 6 following,
Special Access Services as specified in Section 7 following,
Public Data Network Services as specified in Section 14 following, and
Other Services as specified in 5.1.2 preceding.

When placing an order for Access Service, the customers shall provide, at a minimum, the following information.

For Feature Group A Switched Access Service, the customer shall specify the number of lines and the first point of switching, i.e., dial tone office, the Switched Transport options and Local Switching options desired. In addition, the customer shall specify whether the ordered line(s) is for FX/ONAL service or MTS/WATS-type service. If the customer specifies MTS/WATS-type service, it shall also specify which lines are to be arranged in multiline hunt group arrangements and which lines are to be provided as single lines.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

When placing an order for Access Service, the customers shall provide, at a minimum, the following information (Cont'd)

For Feature Group B Switched Access Service, the customer shall specify the number of trunks and the end office when direct routing to the end office is desired or the access tandem switch when routing is desired via an access tandem switch and Local Transport options and Local Switching options are desired. In addition, the customer shall also specify for terminating-only access minutes, whether the trunks are to be arranged in trunk group arrangements or provided as single trunks.

Customers shall order Feature Group D by specifying the number of trunks desired between their premises and an entry switch. The customer must also provide the Telephone Company an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project future facility requirements.

The WATS [1] Access Line optional feature may be ordered separately by a customer other than the customer which ordered the Feature Group D Switched Access Service. However, such WATS Access Line [1] must be ordered for use with Feature Group D Switched Access Service. (C) (C)

For the WATS [1] Access Line optional feature, the customer shall specify the customer's premises at which the WATS [1] Access Line terminates, the type of line, i.e., two-wire or four-wire, the type of calling, i.e., originating or terminating, and the type of Supervisory Signaling. When the necessary screening functions are not provided at the wire center which serves the customers originating or terminating premises, the Telephone Company will use the nearest wire center premises where the screening capacity exists. (C) (C)

For the Operator Transfer Service option ordered in conjunction with Feature Group D as specified in 6.2.3(A)(9) following, the customer must specify the number of trunks desired between their premises and the Telephone Company designated Operator Services access point. Operator transfer trunks are used to carry only originating zero minus traffic, i.e., the customer dials only the zero digit with no additional digits. Trunks ordered with Operator Transfer Service may be arranged for originating only traffic.

When ordering Operator Transfer Service trunks as specified preceding, the customer must also specify the type of signaling desired. Operator Transfer Service trunks may be equipped with either Exchange Access Signaling, where available, or Operator Services Signaling as specified in technical publication TR-NPL-00258, issued October 1, 1985, and technical publication TR-TSY-000506, issued July 1987. Exchange Access Signaling is only available where Telephone Company facilities are capable of providing such signaling.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

When placing an order for Access Service, the customers shall provide, at a minimum, the following information (Cont'd)

For Directory Assistance Service, the customer shall specify the number of busy hour minutes of capacity (BHMC) from the customer's premises to the Directory Assistance location. If the Directory Assistance Service is to be associated with a Feature Group B or D Switched Access Service, the customer shall also specify which Feature Group B or D Switched Access Service trunk group is to be associated with the Directory Assistance Service. This information is used to determine the number of transmission paths as set forth in 9.2(E)(3) following. The customer then specifies the Directory Transport options.

For Feature Group D Switched Access Service with out-of-band signaling, in addition to information listed in 5.2 preceding, the customer shall specify a reference to existing out-of-band signaling connections or reference to a related signaling connection order in 6.1.2 following. The customer must also provide any out-of-band signaling Local Switch options. When ordering trunks with out-of-band signaling, the customer shall provide STP point codes and location identifier codes, circuit identification codes and switch type. In addition, the customer shall also specify, for out-of-band signaling connections, the level of diversity in its network as defined in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specifications, Issue #1, December 1990, and in Technical Reference TR-TSV-000905, issued July 1989.

For Feature Group D with out-of-band signaling, the customer shall work cooperatively with the Telephone Company to determine the number of out-of-band signaling connections required to handle its signaling.

For all Special Access Services, the customer must specify the customer-designated premises or hubs involved, the type of service (e.g. Video, Voice Grade, High Capacity, etc.), the channel interface technical specification package and options desired. For multipoint services, the channel interface at each premises may, at the request of the customer, be different but all such interfaces shall be compatible.

For all Public Data Network Service, the customer must specify the customer designated premises and access concentrator or packet switch locations involved, the type of service to be provided through Special Access Service (e.g., voice grade or Digital Data Service), the channel interface, technical specification package and options desired, the billing options and optional features.

Where the Special Access Service is subject to the surcharge, as set forth in 7.4.2 following and the customer does not use the Special Access Service as described and desires an exemption from the surcharge, it shall furnish with the order the certification as set forth in 7.4.2 following.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.1 Access Order Service Date Intervals

Access Service is provided with one of the following Service Date Intervals:

Standard Interval
Negotiated Interval

To the extent the Access Service can be made available with reasonable effort, the Telephone Company will provide the Access Service in accordance with the customer's requested interval, subject to the following conditions:

(A) Standard Interval

The Telephone Company shall publish and make available to all customers, a schedule of Standard Intervals applicable for Switched and Special Access Services. The schedule specifies the services and the quantities of services that can be provided in the Standard Intervals. Individual copies of the Verizon Schedule of Standard Intervals" will be made available upon request.

Access Services provided in a Standard Interval will be installed during Telephone Company business hours. If a customer requests that installation be done outside of scheduled work hours, and the Telephone Company agrees to this request, the customer will be subject to applicable Additional Labor Charges as set forth in 13.2.6(A) following.

(B) Negotiated Interval

The Telephone Company will negotiate a service date interval with the customer when:

(1) There is no Standard Interval for the service; or

(2) The customer requests a service date before or beyond the applicable Standard Interval service date.

The Telephone Company will offer a service date based on the type and quantity of access services the customer has requested. The Negotiated Interval may not exceed by more than six months the Standard Interval Service date, or, when there is no Standard Interval, the Telephone Company-offered service date.

All part-time Television and Program Audio services are provided with a Negotiated Interval. Each service is subject to a service inquiry. A service inquiry is a request to the Telephone Company to determine if facilities exist to provide the service ordered and to determine the service date on which service can be provided to the customer.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.2 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. If the customer still desires the Access Order modification, the Telephone Company will schedule a new service date. All charges for Access Order modifications will apply on a per-occurrence basis.

Any increase in the number of Special Access Service channels or Switched Access Service lines, trunks or out of band signaling connections will be treated as a new Access Order (for the increased amount only).

If order modifications are necessary to satisfy the transmission performance for a Special Access Service ordered by a customer, these changes will be made without order modification charges being incurred by the customer.

(A) Service Date Change Charge

Access Order service dates may be changed, but the new service date may not exceed the original service date by more than 30 calendar days. If the customer requested service date is more than 30 calendar days after the original service date, the order will be canceled by the Telephone Company and reissued with the appropriate cancellation charges applied. If the Telephone Company determines it can accommodate the customer's request without delaying service dates for orders of other customers a new service date may be established that is prior to the original standard or negotiated interval service date.

If the service date is changed to an earlier date, and the Telephone Company determines additional labor or extraordinary costs are necessary to meet the earlier service date requested by the customer, the customer will be notified by the Telephone Company that Expedited Order Charges as set forth in following apply. Such charges will apply in addition to the Service Date Change Charge.

A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The applicable charge is:

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

(A) Service Date Change Charge (Cont'd)

Service Date Change Charge,
per order $38.54

(B) Partial Cancellation Charge

Any decrease in the number of ordered Special Access Service channels or Switched Access Transport facilities lines, trunks, or out of band signaling will be treated as a partial cancellation and the charges as set forth in 5.2.3 following will apply.

(C) Design Change Charge

The customer may request a design change to the service ordered. A design change is any change to an Access Order which requires engineering review. An engineering review is a review by Telephone Company personnel, of the service ordered and the requested changes to determine what change in the design, if any, are necessary to meet the service changes requested by the customer. Design changes include such things as the addition or deletion of optional features or functions or a change in the type of Transport Termination (Switched Access only), type of channel interface, type of Interface Group or technical specification package. Design changes do not include a change of customer premises, end user premises, end office switch, Feature Group type or Special Access Service Channel type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

The Telephone Company will review the requested change, notify the customer whether the change is a design change, if it can be accommodated and if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge will apply. The Design Change Charge will apply on a per-order, per-occurrence basis for each order requiring a design change. The applicable charge is:

Design Change Charge, per order $38.54

If a change of service date is required, the Service Date Change Charge as set forth in (A) preceding will also apply.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

(D) Expedited Order Charge

An Expedited Order Charge will apply when a customer requests a service date that is earlier than the standard interval service date for the Access Service ordered. A customer may also request an earlier service date on negotiated interval Access Orders.

The request for an earlier service date may be received from the customer prior to the issuance of an Access order, or after the Access order has been issued but prior to the service date.

The Telephone Company maintains exclusive right to accept or deny the request to expedite. If, upon reviewing availability of equipment and scheduled work load, the Telephone Company agrees to provide service on an expedited basis and the customer accepts this proposal, an Expedited Order Charge will apply. If the Telephone Company is subsequently unable to meet an agreed upon expedited service date, then the Expedited Order Charge will not apply.

In the event that the Telephone Company provides service on an expedited basis by customer request and the customer then delays service, an additional Service Date Change Charge beyond that specified in (A) preceding will be applied.

In the event that the customer cancels an expedite request, the Expedited Order Charge will be added to the Cancellation Charge specified above.

An Expedited Order Charge will not be applied to orders expedited for Telephone Company reasons.

The nonrecurring Expedited Order Charge to be applied to all Switched and Special Access orders processed on an expedited basis is as follows:

Expedited Order Charge*, per order $175.00

* The Expedited Order Charge will be billed in addition to the normal nonrecurring Access Service service charge and will be applied on a per order basis.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.3 Cancellation of an Access Order

(A) A customer may cancel an Access Order for the installation of service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be canceled. The verbal notice must be followed by written confirmation within 10 days.

A customer may negotiate an extension of a service date of an Access Order for installation of new services or rearrangements of existing services and a Service Date Change Charge as set forth in 5.2.2 will apply. However, the new service date cannot exceed the originally established service date by more than 30 calendar days. On the 31st day beyond the original service date, the Access Order will be canceled and an appropriate Cancellation Charge will be applied.

Costs incurred in conjunction with the provision of Switched or Special Access Service start on the Application Date as defined in (B)(2) following.

When the customer cancels an Access Order prior to being notified of the critical events in the Provisioning Process, as defined in (B)(2) following, no charges shall apply.

(B) Applicable charges are based on the amount of provisioning completed by the Telephone Company at the time the order is canceled. The charges are determined based on the following:

(1) Certain Telephone Company critical dates are associated with an Access Order provisioning interval, whether Standard or Negotiated. These dates are used by the Telephone Company to monitor the progress of the provisioning process. At any point in the Access order provisioning interval the Telephone Company is able to determine which critical date was last completed and can thus determine what percentage of the Telephone Company's nonrecurring charge has been incurred.

(2) The critical dates tracked by the Telephone Company are as follows:

- Application Date (APP): The date the customer provides a firm commitment and sufficient information as detailed in 5.1 preceding to the Telephone Company. This is also the order date.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.3 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

(2) (Cont'd)

- Scheduled Issue Date (SID): The date that the order is to be entered in the Telephone Company's order distribution system.

- Design Layout Report Date (DLRD): The date the Design Layout Report (DLR) is to be forwarded to the customer. In the case of "Routing/Translation only"* orders, this date occurs when all necessary network design and layout information has been passed to the Translation Writing Organization.

- Records Issue Date (RID): The date that all design and assignment information is to be sent to the central office and installation forces.

- Wired and Office Tested Date (WOT): The date by which all intraoffice wiring is to be completed, all plug-ins optioned, aligned, and frame continuity established, and the interoffice facilities, if applicable, tested. In addition, switching equipment is to be installed and tested and all translations loaded and checked.

- Plant Test Date (PTD): The date on which overall testing of the service is to be started. In the case of "Routing/Translation only" *orders, this date is when all individual office tests of the translations are completed.

- Service Date (DD): The date on which service is to be made available to the customer. This is sometimes referred to as the Due Date.

(3) The amount of the total provisioning completed by the Telephone Company at a particular critical date varies by the type of service shown as following.

* Trunk Routing/Switch Translation (R/T) installation orders are those that require translations software changes only.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.3 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

(3) (Cont'd)

When a customer cancels an Access Order, or part of an Access Order, before the service date, the Telephone Company will apply cancellation charges to the order, unless the order is canceled because the Telephone Company missed the service date, by multiplying all the nonrecurring charges associated with the order, or that part of the order being canceled, by the percentage shown following for the critical date last completed on the order:

	APP	SID	DLRD	RID	WOT	PTD
FGA	0%	9%	19%	37%	100%	100%
FGB	0%	8%	17%	32%	100%	100%
FGD	0%	7%	18%	32%	100%	100%
CCSAS	0%	7%	18%	32%	100%	100%
OTS	0%	7%	18%	32%	100%	100%
SNA	0%	7%	18%	32%	100%	100%
R/T*	0%	20%	50%	75%	90%	100%
MT	0%	22%	39%	39%	68%	100%
S56	0%	7%	18%	32%	100%	100%
TG	0%	12%	23%	23%	66%	100%
VG	0%	8%	17%	17%	74%	100%
WAC	0%	7%	18%	32%	100%	100%
AP	0%	10%	24%	24%	70%	100%
TV	0%	7%	26%	26%	69%	100%

* Trunk Routing/Switch Translation installation orders are those that require translations software changes only.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.3 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

(3) (Cont'd)

	APP	SID	DLRD	RID	WOT	PTD
WA	0%	7%	26%	26%	69%	100%
WD	0%	7%	26%	26%	69%	100%
DA	0%	10%	21%	21%	70%	100%
HC	0%	6%	21%	21%	74%	100%
IC	0%	6%	21%	21%	74%	100%

5.2.4 Selection of Facilities For Access Orders

(A) When there are analog or digital high capacity facilities to a Hub on order or in service for the customer's use, the customer may request a specific channel or transmission path be used to provide the Switched or Special Access Service requested in an Access Order. The Telephone Company will make a reasonable effort to accommodate the customer's request.

(B) For all other Access Orders, the option to request a specific transmission path or channel is not provided except as provided for under Special Facilities Routing as set forth in Section 11 following.

5.2.5 Minimum Period

(A) Except as set forth in (C) and 9.4(A) following, the minimum period for which Access Service is provided and for which charges are applicable, is one month.

(B) The minimum period for part-time Television and Program Audio Special Access Services is one day even though the service will be provided only for the duration of the event specified on the order (e.g., one-half hour, two hours, five hours, etc.).

5.2.6 Minimum Period Charges

When Access Service is disconnected prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period. A disconnect constitutes facilities being returned to available inventory.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.6 Minimum Period Charges (Cont'd)

The Minimum Period Charge for monthly billed services will be determined as follows:

(A) For Switched Access Service, the charge for a month or fraction thereof is equal to the applicable minimum monthly charge for the capacity as specified in Section 6.7.2 of this tariff.

(B) For Special Access Service, the charge for a month or fraction thereof is the applicable monthly rates for the service as specified in Section 7.4.3 of this tariff.

(C) For Public Data Network Service, the charge for a month or fraction thereof is the applicable monthly rates for the service as specified in Section 14.B.7.C(14) of this tariff.

The Minimum Period Charge for part-time Television and Program Audio Services is the applicable daily rate for the service as specified in Section 7.5 of this tariff.

5.2.7 Shared Use Facilities

Shared Use (i.e., Switched and Special Access Services provided over the same analog or digital high capacity facilities) is allowed. Shared use facilities to a Hub will be ordered and provided as Special Access Service. While shared use is allowed, individual services utilizing these facilities must be ordered either as Switched Access Service or Special Access Service. When placing the order for the individual service(s), the customer must specify a channel assignment for each service ordered.

5.2.8 Switched 56-kilobit Service

When the Switched 56-kilobit Service option, described in Section 6 of this tariff, is ordered for use with Feature Group D service, the customer must specify the office where the Switched 56-kilobit Service function is to be provided. Switched 56-kilobit Service is available only in Telephone Company designated end offices. Feature Group D trunks used for Switched 56-kilobit Service are dedicated to carrying only Switched 56-kilobit Service traffic and are ordered directly to the Switched 56-kilobit Service end office. Switched 56-kilobit Service trunks may be originating-only, terminating-only, or two-way.

SWITCHED ACCESS SERVICE

6.1 General

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point electrical communications path between a customer's premises and an end user's premises. It provides for the use of common terminating, switching and transport facilities, and both common subscriber plant and unshared subscriber plant (i.e., entrance facilities) of the Telephone Company. Switched Access Service provides for the ability to originate calls from an end user's premises to a customer's premises, and to terminate calls from a customer's premises to an end user's premises in the LATA where it is provided. Specific references to material describing the elements of Switched Access Service are provided in 6.1.1 and 6.1.2 following.

Rates and charges for Switched Access Service depend generally on its use by the customer, i.e., for MTS or WATS [1] services, MTS/WATS [1] equivalent services, or other services (e.g., foreign exchange service). Rates and charges for Switched Access Service are set forth in 6.8 following. The application of rates for Switched Access Service is described in 6.7 following. Rates and charges for services other than Switched Access Service, e.g., a customer's interLATA toll message service, may also be applicable when Switched Access Service is used in conjunction with these other services. Descriptions of such applicability are provided in 6.2.1(A)(7), 6.2.1(B)(3), 6.2.2(A)(5), 6.2.2(B)(4), 6.2.3(A)(4), 6.7.6 and 6.7.8 following. Finally, a credit is applied against line side Switched Access Service charges as described in 6.7.7 following. (C)

6.1.1 Switched Access Service Arrangements and Manner of Provision

Switched Access Service is provided in three service categories of standard and optional features, Feature Groups A, B and D. These are differentiated by their technical characteristics, e.g., line side vs. trunk side connection at the Telephone Company entry switch, and the manner in which an end user accesses them in originating calling, e.g., with or without an access code. Following is a brief description of the Feature Group arrangements.

(A) Feature Group A (FGA)

FGA Access, which is available to all customers, provides line side access to Telephone Company end office switches with an associated seven-digit local telephone number for the customer's use in originating and terminating communications. A more detailed description of FGA Access is provided in 6.2.1 following.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.1 Switched Access Service Arrangements and Manner of Provision (Cont'd)

(B) Feature Group B (FGB)

FGB Access, which is available to Interexchange Carriers only, provides trunk side access to Telephone Company end office switches with an associated uniform 950-1XXX or 950-0XXX access code for the customer's use in originating and terminating communications. A more detailed description of FGB Access is provided in 6.2.2 following.

(D) Feature Group D (FGD)

FGD Access, which is available to Interexchange Carriers only, provides trunk side access to Telephone Company end office switches with an associated uniform 101XXXX access code for the customer's use in originating and terminating communications. The WATS [1] Access Line optional feature specified in 6.2.3(A)(8) may be ordered separately by a customer other than the customer which orders the FGD Switched Access Service. WATS Access Lines [1] are ordered as specified in Section 5.2 of this tariff. A more detailed description of FGD Access is provided in 6.2.3 following. (C) (C)

Operator Transfer Service, as described in 6.2.3(A)(9) following, is an optional service available for use with Feature Group D. Operator Transfer Service is an originating only service and is ordered as specified in Section 5.2 of this tariff. In addition to Feature Group D charges, Operator Transfer Service is subject to the rates and charges specified in 6.1.2(C)(2) and 6.8.6 following.

Switched 56-kilobit Service, as described in 6.2.3 following, is an optional service available for use with Feature Group D. Switched 56-kilobit Service is ordered as specified in Section 5.2.8 of this tariff.

(E) Manner of Provision

Switched Access is furnished in either quantities of lines or trunks.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.1 Switched Access Service Arrangements and Manner of Provision (Cont'd)

(E) Manner of Provision (Cont'd)

There are three major traffic types. These are: Originating, Terminating and Directory Assistance. Originating traffic type represents access capacity within a LATA for carrying traffic from the end user to the customer; Terminating traffic type represents access capacity within a LATA for carrying traffic from the customer to the end user; and, Directory Assistance traffic type represents access capacity within a LATA for carrying Directory Assistance traffic from the customer to a Directory Assistance location. When ordering capacity for FGB Access or FGD Access, the customer must at a minimum specify such access capacity in terms of Originating traffic type and/or Terminating traffic type. Directory Assistance traffic type is used for ordering Directory Assistance Access Service as set forth in Section 9 following.

Because some customers will wish, or may be required, to further segregate their originating FGD traffic into separate trunk groups, originating traffic type is further categorized into Domestic, Toll Free Data Base Access Service, Operator, IDDD, Switched 56 (S56) Kilobit Service, and Operator Transfer Service. Domestic traffic type represents access capacity for carrying only domestic traffic other than Toll Free Data Base Access Service and Operator traffic; IDDD traffic type represents access capacity for carrying only international traffic; Toll Free Data Base Access Service and Operator traffic type represents access capacity for carrying, respectively, only Toll Free Data Base Access Service or Operator traffic; and Switched 56 (S56) Kilobit Service, and Operator Transfer Service traffic types represents access capacity for carrying, respectively, only Switched 56 (S56) Kilobit Service and Operator Transfer Service.

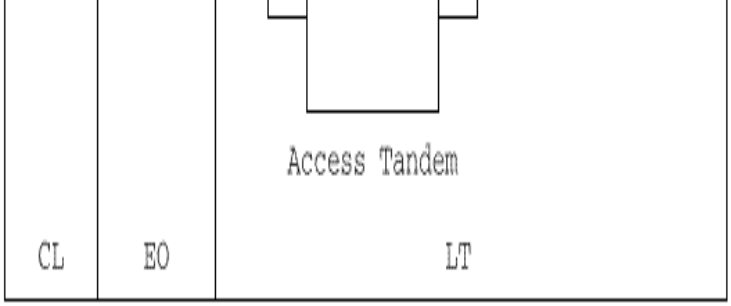
An out-of-band signaling connection as described in 6.1.2 following is required in conjunction with Feature Group D equipped with out of band signaling. An out-of-band signaling connection provides the
interconnection between the Telephone Company's STP pair and the customer's SPOI(s).

When ordering out-of-band signaling with Feature Group D, the customer shall specify that all traffic is to be equipped with out-of-band signaling.

6.1.2 Rate Categories

The following rate categories apply to Switched Access Service:

Switched Transport, described in 6.1.2(B) following.
End Office, described in 6.1.2(C) following.
Common Line, described in Section 3 preceding.
Toll Free Data Base Access Service, described in 6.3.3(A) following.



LT = Local Tandem
EO = End Office
CL = Common Line

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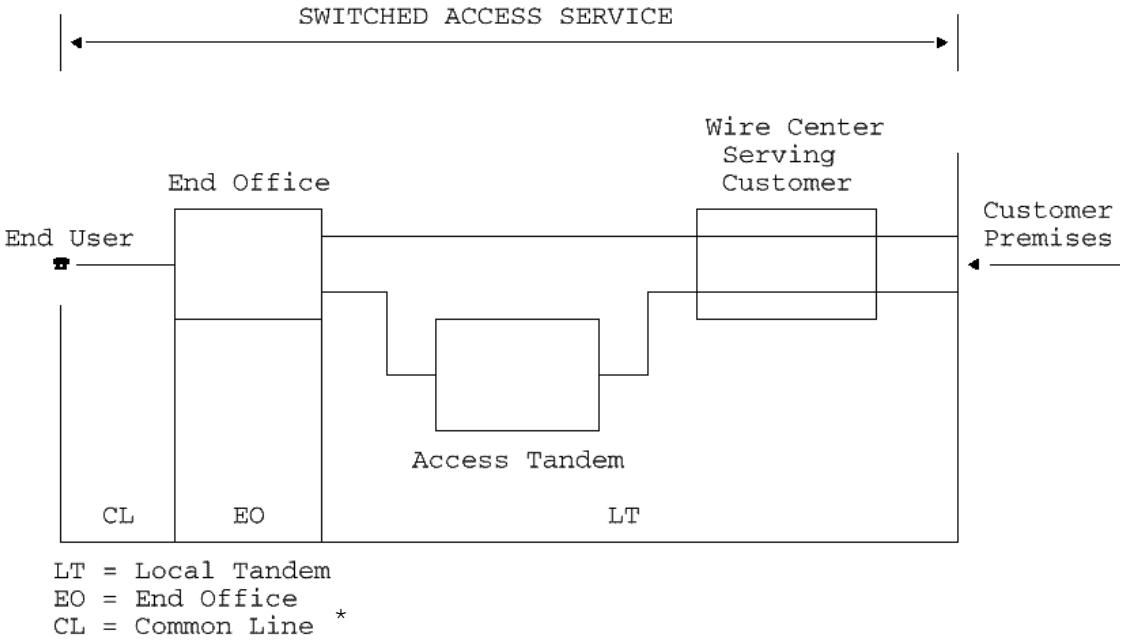


LT = Local Tandem
EO = End Office
CL = Common Line *

(A) Switched Transport

The Switched Transport rate category provides the transmission facilities between the customer's premises and the end office switch(es) where the customer's traffic is switched to originate orterminate the customer's communications. For purposes of determining Switched Transport mileage, distance will be measured from the wire center that normally serves the customer's premises to the end office switch(es). Exceptions to the mileage measurement rules are set forth in 6.7.9 following and in this section.

Switched Transport is a two-way voice frequency transmission path composed of Switched Entrance Facilities, Direct Trunked Transport Facilities, and/or Tandem Switched Transport Facilities which permit the transport of calls in the originating direction (from the end user end office switch to the customer's premises) and in the terminating direction (from the customer's premises to the end office switch), but not simultaneously. The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

* Common Line access is provided under Section 3 preceding.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

The Telephone Company will work cooperatively with the customer in determining 1) the entrance facility, 2) whether service is to be directly routed to an end office switch or through an access tandem switch via tandem switched facilities, and 3) the directionality of the service.

Switched Transport is provided at the rates and charges set forth in 6.8.1 following. The application of these rates with respect to individual Switched Access Arrangements is as set forth in 6.7.1 following.

The Switched Transport rate category provides the transmission facilities between the customer's premises and the end office switch(es) where the customer's traffic is switched to originate or terminate the customer's communications. For purposes of determining Switched Transport mileage, distance will be measured from the wire center that normally serves the customer's premises to the end office switch(es). Mileage measurement rules are set forth in 6.8. following and in this section.

Switched Transport is a two-way voice frequency transmission path composed of Switched Entrance facilities, Direct Trunked Transport facilities, and/or Tandem Switched Transport facilities which permit the transport of calls in the originating direction (from the end user end office switch to the customer's premises) and in the terminating direction (from the customer's premises to the end office switch), but not simultaneously. The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The Telephone Company will work cooperatively with the customer in determining: (1) the Entrance Facility, (2) whether the service is to be directly routed to an end office switch or through an access tandem switch via Tandem Switched facilities, and (3) the directionality of the service. When the customer has ordered FGD with the Switched 56 Kilobit Service, the Telephone Company will provide facilities that are capable of supporting transmission of digital data at a speed of 56 Kbps.

Switched Transport is provided at the rates and charges set forth in 6.8.1 following. The application of these rates with respect to individual Switched Access Arrangements is as set forth in 6.7.1(D) following.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

Switched Transport is comprised of an Entrance Facility rate category, as described in (1) following, a Direct Trunked Transport rate category, as described in (2) following, and a Tandem Switched Transport rate category, as described in (3) following.

(1) Entrance Facility Rate Category

An Entrance Facility provides the communication path between a customer's premises and the Telephone Company SWC of that premises for the sole use of the customer. The Entrance Facility category is comprised of a Voice Grade rate, a DS1 rate or a DS3 rate. An Entrance Facility is required whether the customer's premises and the SWC are located in the same or different buildings. The types of facilities available for Entrance Facilities are described in 6.2.4 following.

(2) Direct Trunked Transport Rate Category

Direct Trunked Transport provides the transmission path from the SWC of the customer's premises to an end office or from the SWC to a tandem or, in the case of voice grade service used for FGA, from the SWC to the Dial Tone Office (DTO). This transmission path is dedicated to the use of a single customer.

The Direct Trunked Transport rate category is comprised of a monthly fixed rate and a monthly per mile rate based on the facility provided (i.e., Voice Grade, DS1, or DS3). The fixed rate provides the circuit equipment at the ends of the transmission links. The per mile rate provides the transmission facilities, including intermediate transmission circuit equipment, between the end points of the circuit. The Direct Trunked Transport rate is the sum of the fixed rate and the per mile rate. For purposes of determining the per mile rate, mileage shall be measured as airline mileage between the SWC of the customer's premises and the end office or directly to the access tandem using the V&H coordinates method. The types of facilities available for Direct Trunked Transport are described in 6.2.4 following.

(3) Tandem Switched Transport Rate Category

Tandem Switched Transport provides the transmission facilities from the SWC of the customer's premises to an end office utilizing tandem switching functions. Tandem Switched Transport consists of circuits dedicated to the use of a single customer from the SWC of the customer's premises to the access tandem and circuits used in common by multiple customers from the access tandem to an end office. The Telephone Company will base its determination on a per trunk basis provided by the customer when ordering service.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(3) Tandem Switched Transport Rate Category (Cont'd)

The Tandem Switched Transport rate category is comprised of a Tandem Transport fixed MOU rate, Tandem Transport Per Mile/Per MOU rate, and a Tandem Switching MOU rate. The fixed rate provides the circuit equipment at the end of the interoffice transmission links. The per mile rate provides the transmission facilities, including intermediate transmission circuit equipment between the end points of the interoffice circuit. For purposes of determining the per mile per minute of use rate, tandem mileage shall be measured as airline mileage between the tandem and the end office using the V&H coordinates method. The Direct Trunked Transport shall be measured, via V-H coordinates, between the customer's SWC and the tandem. The Tandem Switching rate provides for tandem switching facilities.

The Tandem Switched Transport fixed rate and the Tandem Transmission per mile/per MOU rate also apply to FGA with a Voice Grade Facility. The miles are measured from the DTO to the End Office.

Dedicated Tandem Trunk Port

The Dedicated Tandem Trunk Port is a monthly per port rate that provides a port for each dedicated trunk terminating on the serving wire center side of the access tandem.

Transport Multiplexing Rate

The Transport Multiplexing rate provides for the use of common DS3 to DS1 multiplexers in the end office side of the access tandem for traffic that is switched at an access tandem and/or Feature Group A traffic.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(3) Tandem Switched Transport Rate Category (Cont'd)
When a customer has ordered Feature Group D with out of band signaling, the Telephone Company will provide out of band signaling in accordance with the technical specifications set forth in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specifications Issue #1, December 1990, and Technical Reference TR-TSV-000905, issued August 1989, and as specified in 6.3.4 following.

Notwithstanding the first paragraph of this section 6.1.2(B), the Switched Transport for the WATS [1] access line optional feature will apply as follows. When the WATS [1] serving office is a different end office than the end user's end office, Switched Transport will be measured between the end user's end office and the WATS [1] serving office in addition to being measured between the WATS [1] serving office and the serving wire center for the customer's premises. Switched Transport rates will apply separately to each of these Switched Transport measurements. (C) (C) (C) (C)

(4) Interface Groups

Ten Interface Groups are provided for terminating the Switched Transport at the customer's premises.

Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, the individual transmission path between the customer's premises and the first point of switching may at the option of the customer be provided with optional features as set forth in (2)(a) and (b) following.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(4) Interface Groups (Cont'd)

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer's premises, the need for signaling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer's premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer's premises are digital, then Telephone Company channel bank equipment must be placed at the customer's premises in order to provide the voice frequency interface ordered by the customer.

Interface Group 1 is provided with Type C Transmission Specifications, and Interface Groups 2 through 10 are provided with Type A or B Transmission Specifications, depending on the Feature Group and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Only certain premises interfaces are available at the customer premises. The premises interfaces associated with the Interface Groups may vary among Switched Access Arrangements. The various premises interfaces which are available with the Interface Groups, and the Switched Access Arrangements with which they may be used, are set forth in (j) following.

(a) Interface Group 1

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer's premises/ property. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(4) Interface Groups (Cont'd)

(a) Interface Group 1 (Cont'd)

Interface Group 1 is not provided in association with FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB or FGD when the first point of switching provides only four-wire terminations.

The transmission path between the point of termination at the customer's premises and the first point of switching may be comprised of any form of configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(b) Interface Group 2

Interface Group 2, provides four-wire frequency transmission at the point of termination at the customer's premises/property. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The transmission path between the point of termination at the customer's premises and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(4) Interface Groups (Cont'd)

(b) Interface Group 2 (Cont'd)

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(c) Interface Group 3

Interface Group 3 provides group level analog transmission at the point of termination at the customer's premises/property. The interface is capable of transmitting electrical signals between the frequencies of 60 to 108 kHz, with the capability to channelize up to 12 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive 12 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz. The interface is provided with individual transmission path SF supervisory signaling.

(d) Interface Group 4

Interface Group 4 provides supergroup level analog transmission at the point of termination at the customer's premises/property. The interface is capable of transmitting electrical signals between the frequencies of 312 to 552 kHz, with the capability to channelize up to 60 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 60 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(4) Interface Groups (Cont'd)

(d) Interface Group 4 (Cont'd)

The interface is provided with individual transmission path SF supervisory signaling.

(e) Interface Group 5

Interface Group 5 provides mastergroup level analog transmission at the point of termination at the customer's premises/property. The interface is capable of transmitting electrical signals between the frequencies of 564 to 3084 kHz, with the capability to channelize up to 600 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 600 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with individual transmission path SF supervisory signaling.

(f) Interface Group 6

Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer's premises/property. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, a DS1 signal in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(4) Interface Groups (Cont'd)

(g) Interface Group 7

Interface Group 7 provides DS1C level digital transmission at the point of termination at the customer's premises/property. The interface is capable of transmitting electrical signals at a nominal 3.152 Mbps, with the capability to channelize up to 48 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 48 voice frequency transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

(h) Interface Group 8

Interface Group 8 provides DS2 level digital transmission at the point of termination at the customer's premises/property. The interface is capable of transmitting electrical signals at a nominal 6.312 Mbps, with the capability to channelize up to 96 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment in its office to derive up to 96 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(4) Interface Groups (Cont'd)

(i) Interface Group 9

Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer's premises/property. The interface is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 672 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

(j) Interface Group 10

Interface Group 10 provides DS4 level digital transmission at the point of termination at the customer's premises/property. The interface is capable of transmitting electrical signals at a nominal 274.176 Mbps, with the capability to channelize up to 4032 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 4032 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(4) Interface Groups (Cont'd)

(k) Available Premises Interface Codes

Following is a matrix showing, for each Interface Group, which premises interface codes are available as a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Glossary of Channel Interface codes in 7.3 following.

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	Feature Group B	Feature Group D
1	LO	2LS2	X		
	LO	2LS3	X		
	GO	2GS2	X		
	GO,	2GS3	X		
	LO, GO	2DX3	X		
	LO, GO	4EA3-E	X		
	LO, GO	4EA3-M	X		
	LO, GO	6EB3-E	X		
	LO, GO	6EB3-M	X		
	RV, EA, EB, EC	2DX3		X	X
	RV, EA, EB, EC	4EA3-E		X	X
	RV, EA, EB, EC	4EA3-M		X	X
	RV, EA, EB, EC	6EB3-E		X	X
	EA EB EC	6EC3			X
	RV	2RV3-0		X	X
	RV	2RV3-T		X	X
	Out of Band Signaling	2NO2			X

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(4) Interface Groups (Cont'd)

(k) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	Feature Group B	Feature Group D
2	LO, GO	4SF2	X		
	LO, GO	4SF3	X		
	LO	4LS2	X		
	LO	4LS3	X		
	LO	6LS2	X		
	GO	4GS2	X		
	GO	4GS3	X		
	GO	6GS2	X		
	LO GO	4DX2	X		
	LO GO	4DX3	X		
	LO GO	6EA2-E	X		
	LO, GO	6EA2-M	X		
	LO, GO	8EB2-E	X		
	LO, GO	8EB2-M	X		
	LO, GO	6EX2-B	X		
	RV, EA, EB, EC	4SF2		X	X
	RV, EA, EB, EC	4SF3		X	
	RV, EA, EB, EC	4DX2		X	X
	RV, EA, EB, EC	4DX3		X	
	RV, EA, EB, EC	6DX2			
	RV, EA, EB, EC	6EA2-E		X	X
	RV, EA, EB, EC	6EA2-M		X	X
	RV, EA, EB, EC	8EB2-E		X	X
	RV, EA, EB, EC	8EB2-M		X	X
	EA EB EC	8EC2-M			X
	RV	4RV2-O		X	X
	RV	4RV2-T		X	X
	RV	4RV3-O		X	
	RV	4RV3-T		X	
	Out-of-Band Signaling	2NO2			X
3	LO, GO	4AH5-B	X		
	RV, EA, EB, EC	4AH5-B		X	X
	Out-of-Band Signaling	2NO2			X
4	LO, GO	4AH6-C	X		
	RV, EA, EB, EC	4AH6-C		X	X
	Out-of-Band Signaling	2NO2			X

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(4) Interface Groups (Cont'd)

(k) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	Feature Group B	Feature Group D
5	LO, GO	4AG6-D	X		
	RV EA EB EC	4AH6-D		X	X
	Out-of-Band Signaling	4AH6-D			X
6	LO, GO	4DS9-15	X		
	LO, GO	4DS9-15L	X		
	RV EA EB EC	4DS9-15		X	X
	RV EA EB EC	4DS9-15L		X	X
	Out-of-Band Signaling	4DS9-15			X
	64CCC	4DS9-15S			X
	64CCC	4DSO-15			X
7	LO, GO	4DS9-31	X		
	RV EA EB EC	4DS9-31		X	X
	LO, GO	4DS9-31L	X		
	RV, EA EB EC	4DS9-31L		X	X
	Out-of-Band Signaling	4DS9-31			X
8	LO, GO	4DSO-63	X		
	LO, GO	4DSO-63L	X		
	RV EA EB EC	4DSO-63		X	X
	RV EA EB EC	4DS0-63L		X	X
	Out-of-Band Signaling	4DS9-63			X
9	LO, GO	4DS6-44	X		
	LO, GO	4DS6-44L	X		
	RV EA EB EC	4DS6-44		X	X
	RV EA EB EC	4DS6-44L		X	X
	Out-of-Band Signaling	4DS9-44			X
	64CCC	4DS9-44			X
10	LO, GO	4DS6-27	X		
	LO, GO	4DS6-27L	X		
	RV, EA, EB, EC	4DS6-27		X	X
	RV, EA, EB, EC	4DS6-27L		X	X
	Out-of-Band Signaling	4DS6-27			X

(5) Nonchargeable Optional Features

Where transmission facilities permit, the Telephone Company will, at the option of the customer, provide the following nonchargeable optional features in association with Switched Transport.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Nonchargeable Optional Features (Cont'd)

(a) Supervisory Signaling

Where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability, the customer may order an optional supervisory signaling arrangement for each transmission path provided as follows:

For Interface Groups 1 and 2

DX Supervisory Signaling,
E&M Type I Supervisory Signaling,
E&M Type II Supervisory Signaling, or
E&M Type III Supervisory Signaling

For Interface Group 2

SF Supervisory Signaling, or
Tandem Supervisory Signaling

For Interface Groups 6 through 10

These Interface Groups may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices.

Generally such signaling is available only where the entry switch provides an analog, i.e., nondigital, interface to the transport termination.

These optional supervisory signaling arrangements are not available in combination with FGD with out of band signaling.

(b) Customer-specified Entry Switch Receive Level

This feature allows the customer to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference PUB 62500. This feature is available with Interface Groups 2 through 10 for Feature Groups A and B.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Nonchargeable Optional Features (Cont'd)

(c) Customer Specification of Switched Transport Termination

This option allows the customer to specify, for Feature Group B routed directly to an end office or access tandem, a four-wire termination of the switched transport at the entry switch in lieu of a Telephone Company selected two-wire termination. This option is available only when the Feature Group B arrangement is provided with type B transmission specifications.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Nonchargeable Optional Features (Cont'd)

(d) Toll Free Data Base Access Service

(1) Basic Query Charge

The basic query charge is assessed the customer based on the query of the Toll Free+NXX+XXXX number dialed and/or delivered to the customer in conjunction with Toll Free Data Base Access Service. Toll Free+NXX+XXXX calls delivered to the customer are routed based on information derived via queries to the Toll Free Data Base.

(2) Vertical Feature Package Charge

The vertical feature package charge is assessed the customer when, in addition to the basic query, an Toll Free Data Base query contains one, all, or any combination of the vertical features as described in 6.3.3(A) following.

(e) Out-of-Band Signaling

1. This ordering option allows the customer to exchange signaling for Feature Group D call setup over a communications path which is separate from the message path. This option is provided with SS7 protocol and is only available with Feature Group D. This option requires the establishment of a Common Channel Signaling Access Service between the customer's SPOI and the Telephone Company's STP as specified in 6.3.4 following.

2. Out-of-band signaling is provided in both the originating and terminating direction of FGD service.

Each signaling connection is provisioned for two-way transmission of out-of-band signaling information.

3. Customers ordering out-of-band signaling are subject to the requirements specified in 2.3.9, 2.3.10(A)(4) and (6) preceding.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Nonchargeable Optional Features (Cont'd)

(e) Out-of-Band Signaling (Cont'd)

4. Out-of-band signaling is subject to the rates and charges as specified in 6.8.2(C) and 6.8.2(F) fol-lowing.

5. Conversion from MF signaling to SS7 signaling or from SS7 signaling to 64 Clear Channel Capability (64CCC) is not subject to charges as specified in section 6.7.1(C)(2) following. These conversions will be performed at Telephone Company access tandems and end offices designated as having SS7 or 64CCC. The number of trunks converted to SS7 signaling cannot exceed the number of trunks with MF signaling that are converted, and the number of trunks converted to 64CCC cannot exceed the number of trunks with MF or SS7 signaling that are converted. The customer must retain the same technical interface specifications unless otherwise mutually agreed upon by the Telephone Company central office switching equipment and other facilities exist. Conversion of tandem or end office trunks from MF signaling to SS7 signaling or from SS7 signaling to 64CCC will be scheduled on a project basis by the Telephone Company, in cooperation with the customer.

6. At the customer's request, the Telephone Company will modify FGD with out-of-band signaling to accept SS7 signaling messages and protocol contained in TR-TSV-000962, Issue 1, September 1990, pursuant to successful completion of testing specified in Section 6.3.4 following.

7. 64 Clear Channel Capability (64CCC) will be provided in connection with FGD with out-of-band signaling digital trunk facilities provisioned at Interface Group 6 or 9, where appropriate Telephone Company equipment and other facilities exist.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Nonchargeable Optional Features (Cont'd)

(e) Out-of-Band Signaling (Cont'd)

8. 64CCC is provided through the use of Bipolar with Eight-Zeros Substitution line code which must be provided in both directions of transmission. 64CCC will be provisioned on T1 facilities whose digital transmission signaling is framed in the Extended Superframe Format. The same framing format must be used in both directions of transmission. Technical Reference TR-NWT-000938, Issue 1, August 1990, provides the technical specifications for 64CCC.

9. 64CCC requires the establishment of CCSAS as specified in section 6.3.4 following. The CCS/SS7 protocol requirements for 64CCC are specified in TR-TSV-000938 Issue 1, August 1990. When 64CCC is ordered, the Telephone Company will schedule additional network compatibility and other operational tests as specified in 6.3.4 following.

(6) Chargeable Optional Features

(a) Multiplexing

Multiplexing provides the capability of converting the capacity or bandwidth of a facility from a higher level to a lower level or from a lower level to a higher level. Multiplexing arrangements available for Entrance Facilities and Direct Trunked Transport facilities are described in 1. and 2. following. Rates and charges are set forth in Section 6.8.1(D) following.

When the customer requests Tandem Switched Transport and Direct-trunked Transport to connect to the same Entrance Facility, multiplexing is required at the SWC and must be ordered by the customer as a chargeable optional feature of the Entrance Facility as set forth in 1. and/or 2. following.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(6) Chargeable Optional Features (Cont'd)

(a) Multiplexing (Cont'd)

Chargeable multiplexing arrangements ordered with an Entrance Facility at a SWC or a Direct-trunked Transport facility at an end office are associated with the facility with the higher capacity or bandwidth (e.g., a DS1 to Voice Grade multiplexing arrangement is associated with the facility using a DS1 connection).

1. DS1 to Voice Grade

An arrangement that converts a DS1 channel to twenty-four Voice Grade channels utilizing time-division multiplexing. For example, the customer has the option of ordering a DS1 to Voice Grade multiplexing for the Entrance Facility at the SWC when Voice Grade Direct-trunked Transport is requested to an end office. A DS1 to Voice Grade multiplexing is required at the end office when the customer orders FGA which is transported via a DS1 Direct-trunked Transport facility.

2. DS3 to DS1

An arrangement which converts a DS3 channel to twenty-eight DS1 channels utilizing time-division multiplexing. The twenty-eight channels may be further multiplexed utilizing DS1 to Voice Grade multiplexers. DS3 to DS1 multiplexing is available as a chargeable optional feature for Entrance Facilities and Direct-trunked Transport facilities. DS3 to DS1 multiplexing is always required at the SWC of the customer's premises when a DS3 Entrance Facility is to connect to a lower level of capacity.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(6) Chargeable Optional Features (Cont'd)

(b) Diversity

Diversity denotes that a service must be provided over not more than two different physical routes. The rates for Diversity, as specified in 11.2(1) following, applies per entrance facility, and is in addition to the entrance facility and channel mileage rates and charges for each high-capacity service.

(c) Shared Network Arrangement

1.A Shared Network Arrangement is a service offering that enables a customer (the "Service User") to connect subtending services to the multiplexed High-Capacity service or Reconfigured Service on DS1 of another customer (the "Host Subscriber"), with the Telephone Company maintaining separate records and billing for each. Each customer will be billed for those rate elements associated with his own portion of the service configuration. Under no circumstances will the rates or charges for individual rate elements be split. This offering is limited to service configurations where a Service User obtains either subtending Voice Grade or Data Digital circuits from a Host's multiplexed DS1 service, or DS1 circuits from a Host's multiplexed DS3 service.

2. Under the Shared Network Arrangement, the Telephone Company may share with the host subscriber record information pertaining to the services of other users of the shared network. Such disclosure will be under the sole discretion of the Telephone Company as is necessary to perform billing reconciliations and/or other functions required in connection with maintaining account records.

3. Rate regulations specific to Shared Network Arrangements are contained in 6.7.14 following.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) End Office

The End Office rate category provides the local end office switching and end user termination functions necessary to complete the transmission of switched access communications to and from the end users served by the local end office. The End Office rate category includes the local switching, line termination, intercept and information (i.e., Directory Assistance) rate elements. Directory Assistance Service and the applicable rates for it are specified in Section 9 of this tariff.

(1) Local Switching

The Local Switching rate element provides for the use of end office switching equipment.

Where end offices are appropriately equipped, international dialing may be provided as a capability associated with Feature Group D. International dialing provides the capability of switching international calls with service prefix and address codes having more digits than are capable of being switched through a standard FGD equipped end office.

Local Switching Shared End Office Trunk Port

The Local Switching Shared End Office Trunk Port minutes-of-use rate provides for the use of the shared end office trunk ports for termination of common transport trunk and/or FGA access minutes at an end office.

Local Switching Dedicated End Office Trunk Port

The Local Switching Dedicated End Office Trunk Port monthly rate provides for termination of a dedicated trunk in the end office port. The rate is assessed per activated trunk for all trunkside services, per analog or digital end office.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

Rates for local switching are specified in 6.8 following. The application of these rates with respect to Switched Access Arrangements is as specified in 6.7 following.

There are two types of local switching functions, i.e., common switching functions and transport termination functions. These are described in (a) and (b) following.

(a) Common Switching

Common Switching provides the local end office switching functions associated with the various access (i.e., Feature Group) switching arrangements. The Common Switching arrangements provided for the various Switched Access Arrangements are described in 6.2 following.

Included as part of Common Switching are various nonchargeable optional features which the customer can order to meet customer's specific communications requirements. These optional features are described in 6.3.1 following.

(b) Transport Termination

Transport Termination provides for the line or trunk side arrangements which terminate the Switched Transport facilities. Included as part of Transport Termination are various nonchargeable optional termination arrangements. These optional terminating arrangements are described in 6.3.2 following.

The number of Transport Terminations provided will be determined by the Telephone Company as set forth in 6.5.6 following.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(2) Operator Transfer Service Charge

The Operator Transfer Service charge is assessed the customer based on the number of zero minus calls transferred to the customer by the Telephone Company operator, i.e., the customer's end user dials only the zero digit with no additional digits. Rates and charges are specified in 6.8.6 following.

The Operator Transfer Service charge recovers the costs associated with operator functions required to transfer end users to the customer of choice for operator services.

The number of end office switching transmission paths will be determined as specified in 6.5.5 following.

(C) Switched 56-kilobit Service Charge

The Switched 56-kilobit Service charge is assessed to the customer based on the total number of Switched 56-kilobit Service access minutes. Switched 56-kilobit Service access minutes are those access minutes transported via separate Switched 56-kilobit Service trunks as specified in 6.2.3 following.

6.1.3 Special Facilities Routing

Any customer may request that the facilities used to provide Switched Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing, i.e., Avoidance, Diversity and Cable-only, are specified in Section 11 following.

6.1.4 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the makeup of the facilities and services provided from the customer's premises/property to the first point of switching. This information will be provided in the form of a Design Layout Report. Design Layout Reports will also be provided for WATS Access Lines [1] when specifically requested by the customer. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed. (C)

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.5 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: loss, C-notched noise, C-message noise, 3-tone slope, d.c. continuity and operational signaling. When the Local Transport is provided with interface Groups 2 through 10, and the Transport Termination is two-wire (i.e., there is a four-wire to two-wire conversion in Local Transport), balance parameters (equal level echo path loss) may also be tested.

6.1.6 Ordering Options and Conditions

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

6.2 Provision and Description of Switched Access Service Arrangements

Switched Access Service is provided in four different Switched Access Arrangements: Feature Groups A, B and D and Toll Free Access Service. The provision of each Switched Access Arrangement requires Local Transport facilities and the appropriate End Office functions. In addition, WATS Access Lines [1] may, at the option of the customer, be provided for use with Feature Group D. (C)

There are three specific transmission specifications (i.e., Types A, B and C) that have been identified for the provision of Switched Access Arrangements. The specifications provided are dependent on the Interface Group and the routing of the service, i.e., whether the service is routed directly to the end office or via an access tandem. The parameters for the transmission specifications are set forth in 6.4.1 following.

Switched Access Arrangements are arranged for either originating, terminating or two-way calling, based on the customer end office switching capacity ordered, while Toll Free Data Base Access Service is arranged for originating only. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer's premises. Terminating calling permits the delivery of calls from the customer's premises to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Telephone Company will determine the type of calling to be provided unless the customer requests that a different type of directional calling is to be provided. In such cases the Telephone Company will work cooperatively with the customer to determine the directionality.

There are various nonchargeable optional features available with the Switched Access Arrangements. These additional optional features are provided as Local Transport, Common Switching, Transport Termination or WATS [1] options. (C)

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

Following are detailed descriptions of each of the available Feature Groups. Each is described in terms of its specific physical characteristics and calling patterns, the transmission specifications with which it is provided, the optional features available for use with it and the standard testing capabilities.

The Common Switching and Transport Termination optional features, which are described in 6.3 following, unless specifically stated otherwise, are available at all Telephone Company end office switches.

6.2.1 Feature Group A (FGA)

(A) Description

(1) FGA is provided in connection with Telephone Company electronic end offices. At the option of the customer, FGA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling. FGA is arranged for use by the customer in the provision of its FX/ONAL service or MTS/WATS-type service.

(2) FGA provides a line side termination at the first point of switching. The line side termination will be provided with either ground start supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the customer.

(3) The Telephone Company shall select the first point of switching, within the selected LATA, at which the line side termination is to be provided unless the customer requests a different first point of switching and Telephone Company facilities and measurement capabilities, where necessary, are available to accommodate such a request.

(4) A seven-digit local telephone number assigned by the Telephone Company is provided for access to FGA switching in the originating direction. The seven-digit local telephone number will be associated with the selected end office switch and is of the form NXX-XXXX.

If the customer requests a specific seven-digit telephone number that is not currently assigned, and the Telephone Company can, with reasonable effort, comply with that request, the requested number will be assigned to the customer.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(A) Description (Cont'd)

(5) FGA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling. When used in the terminating direction FGA switching may, at the option of the customer, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When FGA switching is provided in a hunt group or uniform call distribution arrangement, all FGA switching will be arranged for the same type of address signaling.

(6) No address signaling is provided by the Telephone Company when FGA Switching is used in the originating direction. Address signaling in such cases, if required by the customer, must be provided by the customer's end user using in band tone signaling techniques. Such in band tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Switched Transport provided.

(7) FGA providing MTS/WATS type service, when used in the terminating direction, may be employed to access valid NXXs in the LATA, local operator service (0- and 0+), Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), local exchange telephone repair, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers services (by dialing the appropriate digits). Charges for FGA terminating calls requiring operator assistance or calls to local exchange telephone repair or 911 will only apply where sufficient call details are available. Additional nonaccess charges will also be billed on a separate account for 1) an operator surcharge, as set forth in the General Services Tariff for local operator assistance (0- and 0+) calls, 2) calls to certain community information services, for which rates are applicable under the General Services Tariff, e.g., 976 Network Services, and, 3) calls from a FGA line to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing for that customer. For calls to Directory Assistance (411 where available and 555-1212), Switched Transport rates for FGA Switched Access Service will not apply. Instead, Switched Transport for calls to this service is subject to a per-call rate as set forth in 9.6(B) following. Additionally, calls to Directory Assistance are subject to the Directory Assistance Service call rate set forth in 9.6(A) following.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(A) Description (Cont'd)

(7) (Cont'd)

FGA providing FX/ONAL service, when used in the terminating direction, may be employed to access the services listed preceding within the Local Service Area only. FX/ONAL traffic terminating outside the Local Service Area but within the LATA is subject to rates and charges for intraLATA toll calls as specified in the Long Distance Services Tariff, in addition to rates and charges that apply in this tariff. FX/ONAL installations in service prior to February 15, 1987 will be allowed to continue under the regulations effective prior to this date. As of February 15, 1987, additions, changes and moves of these existing installations will no longer be permitted.

(8) When a FGA switching arrangement for an individual customer (a single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(9) Customers with FGA may obtain a directory listing at the rates specified in the General Services Tariff for Regular and Special Types of Business Additional Listings.

(B) Optional Features

(1) Common Switching Optional Features

(a) Hunt Group Arrangement
(b) Uniform Call Distribution Arrangement
(c) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement
(d) Call Denial
(e) Service Code Denial
(f) WATS Access Line Service with the following options: [1] (C)
(1) Hunt Group Arrangement
(2) Uniform Call Distribution Arrangement
(3) Non-Hunting Number for use with Hunt Group or Uniform Call Distribution Arrangements
(4) Code Screening
(5) Overflow Advance Arrangement

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(B) Optional Features (Cont'd)

(2) Transport Termination Optional Features

(a) Two-way operation with dial pulse address signaling and loop start supervisory signaling
(b) Two-way operation with dial pulse address signaling and ground start supervisory signaling
(c) Two-way operation with dual tone multifrequency address signaling and loop start supervisory signaling
(d) Two-way operation with dual tone multifrequency address signaling and ground start supervisory signaling
(e) Terminating operation with dial pulse address signaling and loop start supervisory signaling
(f) Terminating operation with dial pulse address signaling and ground start supervisory signaling
(g) Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling
(h) Terminating operation with dual tone multifrequency address signaling and ground start supervisory signaling
(i) Originating operation with loop start supervisory signaling
(j) Originating operation with ground start supervisory signaling

(3) Switched Transport Optional Features

(a) Supervisory Signaling (as set forth in 6.1.2(B)(6)(a) preceding)
(b) Customer-specified Entry Switch Receive Level

(4) Certain other features which may be available in connection with Feature Group A are provided under the Telephone Company's other tariffs. These are:

(a) Speed Dialing
(b) Remote Call Forwarding
(c) Billed Number Screening
(d) IntraLATA extensions

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(C) Transmission Specifications

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1, and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

(D) Testing Capabilities

FGA is provided, in the terminating direction where equipment is available, with seven-digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing and Non-Scheduled Testing are available for FGA as set forth in 13.3.4 following.

6.2.2 Feature Group B (FGB)

(A) Description

(1) FGB, when directly routed to an end office (i.e., provided without the use of an access tandem switch), is provided at appropriately equipped Telephone Company electronic end office switches. When provided via Telephone Company-designated electronic access tandem switches, FGB switching is provided at Telephone Company electronic and electromechanical end office switches.

(2) FGB is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.2 Feature Group B (FGB) (Cont'd)

(A) Description (Cont'd)

(3) FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Except for FGB switching provided with the automatic number identification (ANI) or rotary dial station signaling arrangements as set forth in 6.3 following, any other address signaling in the originating direction, if required by the customer, must be provided by the customer's end user using in-band tone signaling techniques. Such in-band tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Switched Transport provided.

(4) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-0XXX or 950-1XXX for carriers. These uniform access codes will be the assigned access numbers of all FGB Switched Access Service provided to the customer by the Telephone Company.

(5) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider and other customers' services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional nonaccess charges for calls to certain community information services for which rates are applicable under the General Services Tariff, e.g., 976 Network Service. Additionally, nonaccess charges will also be billed for calls from a FGB Trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-1XXX or 950-0XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 where available and 555-1212), service code 911 where available, or 101XXXX access codes. FGB may not be switched, in terminating direction, to Switched Access Service Feature Groups B and D.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.2 Feature Group B (FGB) (Cont'd)

(A) Description (Cont'd)

(6) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGB switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGB switching arrangement provided. Different types of FGB or other switching arrangements may be combined in a single trunk group subject to the availability of the Telephone Company equipment.

(7) When all FGB switching arrangements are discontinued at an end office and/or in a LATA, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(B) Optional Features

(1) Common Switching Optional Features

(a) Automatic Number Identification (ANI)
(b) Up to 7-Digit Outpulsing of Access Digits to Customer
(c) Alternate Traffic Routing
(d) WATS Access Line Service with the following options: [1] (C)

(1) Hunt Group Arrangement
(2) Uniform Call Distribution Arrangement
(3) Non-Hunting Number for use with Hunt Group or Uniform Call Distribution Arrangements
(4) Code Screening
(5) Overflow Advance Arrangement

(2) Transport Termination Optional Features

(a) Rotary Dial Station Signaling

(3) Switched Transport Optional Features

(a) Customer Specification of Switched Transport Termination
(b) Supervisory Signaling, as specified in 6.1.2(B)(6)(a) preceding
(c) Customer-specified Entry Switch Receive Level

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.2 Feature Group B (FGB) (Cont'd)

(B) Optional Features (Cont'd)

(4) Another feature, Billed Number Screening, which may be available in connection with FGB, is provided under the General Regulations Tariff.

(C) Transmission Specifications

FGB is provided with either Type A, Type B or Type C Transmission Specifications as follows:

(1) When routed directly to the end office either Type B or C is provided,

(2) When routed to an access tandem only Type A is provided,

(3) Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 through 10.

Type DA Data Transmission Parameters are provided for the transmission path between the customer's premises and the access tandem and between the access tandem and the end office. Type DB Data Transmission Parameters are provided with FGB for the transmission path between the customer's premises and the end office when directly routed to the end office.

(D) Testing Capabilities

FGB is provided, in the terminating direction where equipment is available, with seven-digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open-circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing, Automatic Scheduled Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Nonscheduled Testing are available as specified in 13.3.4 following.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.3 Feature Group D (FGD)

(A) Description

(1) FGD is provided at Telephone Company-designated electronic end office switches, whether routed directly or via Telephone Company-designated electronic access tandem switches.

Feature Group D with out-of-band signaling is provided where conditions permit through Telephone Company-designated switches.

(2) FGD is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.

(3) FGD switching is provided with multifrequency address signaling. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises/property where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Switched Transport provided.

(4) FGD switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services, i.e., by dialing the appropriate codes, when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional nonaccess charges for calls to certain community information services, for which rates are applicable under the General Services Tariff, e.g., 976 Network Service. Additionally, nonaccess charges will also be billed for calls from a FGD trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-1XXX or 950-0XXX access codes; local operator assistance, 0- and 0+; service code 911 where available; and 101XXXX access code. Calls will not be completed to Directory Assistance, 411 where available and 555-1212, unless FGD switching is combined with Directory Assistance switching. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups B or D.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(5) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGD switching is provided. When required by technical limitations, or in the case of Operator Transfer Service, a separate trunk group will be established for each type of FGD switching arrangement provided. Different types of FGD or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

(6) The access code for FGD switching is a uniform access code of the form 101XXXX. A single access code will be the assigned number of all FGD access provided to the customer by the Telephone Company. No access code is required for calls to a customer over FGD Switched Access Service if the end user's telephone exchange service is for presubscription to that customer, as set forth in Section 13 following.

Where no access code is required, the number dialed by the customer's end user shall be a seven- or ten-digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven- to twelve-digit number may be dialed. The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA + NXX-XXXX, 0 or 1 + NPA + NXX-XXXX, and, when the end office is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

When the 101XXXX access code is used, FGD switching also provides for dialing the digit 0 for access to the customers operator, 911 for access to the Telephone Company's emergency reporting service, or the end-of-dialing digit (#) for cut through access to the customer's premises.

(7) FGD switching will be arranged to accept calls from telephone exchange service locations without the need for dialing 101XXXX uniform access code. Each Exchange Service line may be marked with a presubscription code to identify to which 101XXXX code its calls will be directed. Presubscription codes are applied as set forth in Section 13 following.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(8) A WATS Access Line may, at the option of the customer, be provided for use with FGD Switched Access Service. A WATS Access Line provides a connection between a customer's end user's premises and a Telephone Company end office switch capable of performing the necessary screening functions for Toll Free Service, WATS or similar services and is provided only for use at the closed end of such services.

WATS Access Lines are arranged for either originating calling only or terminating calling only. They are provided with rotary dial or dual tone multifrequency address signaling and either loop start or ground start supervisory signaling. The choice of the type of signaling is at the option of the customer.

WATS Access Lines are provided as either an effective two-wire or effective four-wire transmission path. Each transmission path is provided with Standard Transmission Specifications and Data Transmission Parameters as set forth in 6.4.1(D) and 6.4.2(C) following. At the option of the customer, the WATS Access Line may be ordered with the Improved Two-wire Voice Transmission Specifications. Guaranteed specifications are as set forth in 6.4.3 following.

(9) At the option of the customer, Operator Transfer Service, as specified following, is available for use with Feature Group D. Operator Transfer Service is ordered as specified in 5.2 preceding and is provided to the customer via separate FGD trunks dedicated to Operator Transfer Service traffic.

Operator Transfer Service is an arrangement in which Telephone Company operators transfer zero minus end user dialed calls, i.e., the end user dials zero with no additional digits, to the customer designated by the end user.

The operator transfer function will be performed in the following manner:

The operator answers the end user zero minus dialed call.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(9) (Cont'd)

Initially, the operator will direct the end user to dial the interexchange carrier on a direct basis. If the end user insists that the Operator complete the call, the operator will ask the end user to identify the Operator Services provider, or customer, to which they desire to be connected. The operator will then transfer the call to the designated service provider.

If the end user has no preference, or the identified service provider has not subscribed to Operator Transfer Service, the end user will be asked to select from a list of available service providers.

The list of available Operator Transfer Service customers will be updated monthly. The order in which the interexchange carriers will be read to end users will be initially determined by lottery. For each subsequent monthly update, following the initial order selection, the interexchange carrier in the first position on the list will be moved to the last position on the list. All other interexchange carriers on the list will be moved up one position, e.g., 3rd to 2nd, 2nd to 1st, etc. New Operator Transfer Service interexchange carriers will be placed at the bottom of the list of interexchange carriers pending the next monthly update.

Zero minus calls from Network Controlled Coin Lines and Network Controlled Non-Coin Lines will be transferred to the end user designated interexchange carrier. When the call is coin sent-paid, the interexchange carrier, in order to accept such calls, will be required to order signalling as specified in TR-TSY-000506 and TR-NPL-00258.

The interexchange carrier may receive in-band, multiwink, or expanded in-band coin control signalling, where available, from end offices served by an Operator Services access point. Different signalling types cannot be mixed on a single trunk group.

All rates and charges normally applicable to FGD, i.e., nonrecurring, monthly and usage sensitive, apply to Operator Transfer Service. Additionally, a charge as specified in 6.1.2(B) preceding, and 6.8.6 following, is assessed to the interexchange carrier per zero minus call transferred.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(10) At the option of the customer, Switched 56-kilobit Service is available for use with Feature Group D. Switched 56-kilobit Service traffic is ordered as specified in Section 5.2.8 of this tariff, and is delivered to the customer via separate FGD trunks capable of supporting 56 Kbps digital transmission.

Switched 56-kilobit Service is an arrangement whereby customers may receive or send data at a speed of 56 Kbps from designated switches over dedicated trunks. The number dialed by the customer's end user shall be a seven- or ten-digit number in the form of NXX-XXXX, 1+NPA+NXX-XXXX, 101XXXX+NXX-XXXX, NPA+NXX-XXXX, or 101XXXX+NPA+NXX-XXXX.

All rates and charges normally applicable to Feature Group D, i.e., nonrecurring, monthly, and usage sensitive, apply to Switched 56-kilobit Service.

This option is not available in combination with out-of-band signaling.

(B) Optional Features

(1) Common Switching Optional Features

(a) Automatic Number Identification (ANI)

(b) Service Class Routing

(c) Alternate Traffic Routing

(d) Call Gapping Arrangement

(e) Trunk Access Limitation

(f) International Carrier Option

(g) End Office End User Line Service Screening for Use with WATS Access Lines

(h) Hunt Group Arrangement for Use with WATS Access Lines

(i) Uniform Call Distribution Arrangement for Use with WATS Access Lines

(j) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Lines.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(B) Optional Features (Cont'd)

(1) Common Switching Optional Features (Cont'd)

(k) Band Advance Arrangement for Use with WATS Access Lines [1] (C)

(l) Calling Party Number*†

(m) Charge Number*

(n) Carrier Selection Parameter*#

(o) Access Transport Parameter*#

(2) Transport Termination Optional Features

a) Operator Trunk, Full Feature Arrangement

(3) Local Transport Optional Features

a) Supervisory Signaling, as specified in 6.1.3(B)(6)(a) preceding.

b) Toll Free Data Base Access Service

(4) WATS Access Lines [1] - Grandfathered (C)

(a) Two-wire WATS Access Line

(b) Four-wire WATS Access Line

(c) Improved Two-wire Voice Transmission Specifications

(C) Transmission Specifications

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

When routed directly to the end office, either Type B or C is provided.

When routed to an access tandem, only Type A is provided.

Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 through 10.

* Available only on originating FGD.
† CPN is not offered where it is not technically feasible.
# Available only at selected Telephone Company switches.
[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(C) Transmission Specifications (Cont'd)

Type DA Data Transmission Parameters are provided for the transmission path between the customer's location and the access tandem and between the access tandem and the end office. Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer's location and the end office when directly routed to the end office.

For Toll Free Data Base Access Service traffic originating from end offices with the customer identification function, all normal Feature Group D parameters apply.

For Toll Free Data Base Access Service traffic originating from all other end offices, Type A Transmission Specifications are provided for the facility between the access tandem and the customer's location.

FGD trunks equipped for Operator Transfer Service are subject to FGD transmission specifications unless otherwise specified.

(D) Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven-digit access to balance, 100 type, test line; milliwatt, 102 type, test line; nonsynchronous or synchronous test line, automatic transmission measuring, 105 type, test line; data transmission, 107 type, test line; loop around test line; short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Automatic Scheduled Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Nonscheduled Testing, are available for FGD as specified in Section 13.3.4 of this tariff.

6.2.4 Switched Transport Facilities

Customers requesting Switched Access service must specify the type of Entrance Facility, such as DS3, DS1, or Voice Grade. The customer must also specify if Direct Trunked Transport or Tandem Switched Transport is desired. Tandem-switched Transport is not available for FGA Switched Access Service. If Direct-trunked Transport is requested, the customer must specify the type of Direct-trunked Transport facility, DS3, DS1, or Voice Grade to be used. If Tandem-switched Transport is requested, the Telephone Company shall determine the type of facilities to be used from the SWC of the customer's premises to the end office, via the access tandem, unless the customer has ordered Direct-trunked Transport to the tandem. The Telephone Company will base its determination on a per-trunk basis provided by the customer when ordering service.

SWITCHED ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.4 Switched Transport Facilities (Cont'd)

The types of facilities available to the customer for Entrance Facilities and Direct-trunked Transport facilities for Switched Access service are voice grade, DS1 and DS3. Following is a brief description of each type of facility. Each type has its own characteristics and is available with multiplexing options as set forth in 6.1.2(B)(7)(a) preceding.

(A) Voice Grade Facility

A Voice Grade facility is an electrical communications path which provides voice-frequency transmission in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Compatible Interface Groups are described in 6.1.2(B)(5) preceding.

(B) DS1 Facility

DS1 facilities are available for Entrance Facilities and for Direct Trunked Transport facilities. A DS1 facility is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice-frequency transmission paths. Compatible Interface Groups are described in 6.1.2(B)(5) preceding.

(C) DS3 Facility

DS3 facilities are available for Entrance Facilities and Direct Trunked Transport facilities. A DS3 facility is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice-frequency transmission paths. Compatible Interface Groups are described in 6.1.2(B)(5) preceding.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with Switched Access Arrangements. They are provided as either Common Switching or Transport Termination options.

6.3.1 Common Switching Optional Features

(A) Call Denial on Line or Hunt Group

This option allows for the screening of terminating calls within the LATA, and for the completion only of calls to 411 and 911, Toll Free codes, 555-1212, and a Telephone Company-specified set of NXXs within the Telephone Company local exchange calling area of the dial tone office in which the arrangement is provided. All other long distance calls are routed to a reorder tone or recorded announcement. This feature is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices. It is available with Feature Group A.

(B) Service Code Denial on Line or Hunt Group

This option allows for the screening of terminating calls within the LATA, and for disallowing completion of calls to 0- and N11 (e.g., 411 and 911). This feature is provided where available in all Telephone Company electronic end offices and electromechanical end offices. It is available with Feature Group A.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(C) Hunt Group Arrangement

This option provides the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed. This feature is provided in all Telephone Company end offices. It is available with Feature Group A.

(D) Uniform Call Distribution Arrangement

This option provides a type of multiline hunting arrangement which provides for an even distribution of calls among the available lines in a hunt group. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(E) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement This option provides an arrangement for an individual line within a multiline hunt or uniform call distribution group that provides access to that line within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(F) Automatic Number Identification (ANI)

This option provides the automatic transmission of a seven- or ten-digit number and information digits to the customer's premises for calls originating in the LATA, to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with 1) all individual transmission paths in a trunk group routed directly between an end office and a customer's premises or, where technically feasible, with 2) all individual transmission paths in a trunk group between an end office and an access tandem, and a trunk group between an access tandem and a customer's premises.

The seven-digit ANI telephone number is available with Feature Group B. With this Feature Group, technical limitations may exist in Telephone Company switching facilities which require ANI to be provided only on a directly trunked basis. ANI will be transmitted on all calls except those originating from multiparty lines, pay telephones connected to Network Controlled Coin Lines and Network Controlled Non-Coin Lines using Feature Group B, or when and ANI failure has occurred.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(F) Automatic Number Identification (ANI) (Cont'd)

The ten-digit ANI telephone number is only available with Feature Group D. The ten-digit ANI telephone number consists of the Numbering Plan Area (NPA) plus the seven-digit ANI telephone number. The ten-digit ANI telephone number will be transmitted on all calls except those identified as multiparty line or ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described below).

Where ANI cannot be provided, information digits will be provided to
the customer.

The information digits identify: 1) telephone number is the station billing number - no special treatment required, or 2) ANI failure has occurred in the end office switch which prevents identification of calling telephone number - must be obtained by operator or in some other manner, 3) hotel/motel originated call which requires room number identification, 4) coinless station, hospital, inmate, etc. call which requires special screening or handling by the customer, and 5) call is an Automatic Identified Outward Dialed (AIOD) call from customer premises equipment. The ANI telephone number is the listed telephone number of the customer and is not the telephone number of the calling party. These ANI information digits are available with Feature Groups B and D.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(G) Up to 7-Digit Outpulsing of Access Digits to Customer

This option provides for the end office capability of providing up to 7 digits of the uniform access code (950-1XXX or 950-0XXX) to the customer's premises. The customer can request that only some of the digits in the access code be forwarded. The access code digits would be provided to the customer's premises using multifrequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. It is available with Feature Group B.

(H) Calling Party Number (CPN)

This option provides for the automatic transmission of the calling party's ten-digit telephone number to the customer's premises for calls originating in the LATA. The ten-digit telephone number consists of the NPA plus the seven-digit telephone number, which may or may not be the same as the calling station's charge number. The specific protocol for CPN is contained in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification, Issue #1, December 1990, and in Technical Reference TR-TSV-000905. This feature is available only with originating Fea-ture Group D when out of band signaling is specified.

The Telephone Company will transmit a "privacy indicator" as part of the CPN information in those jurisdictions where end users may elect that their CPN information not be passed to the called party, and where an end user has taken the actions necessary to ensure that their CPN is so blocked.

(I) Charge Number (CN)

This option provides for the automatic transmission of the ten-digit billing number of the calling station number and originating line information. The specific protocol for CN is contained in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specifications, Issue #1, December 1990, and Technical Reference TR-TSV-000905. This feature is available only with originating Feature Group D when out of band signaling is specified.

(J) Carrier Selection Paramerter (CSP)

This option provides for the automatic transmission of a signaling indicator which signifies to the customer whether the call being processed originated from a presubscribed end user of that customer. The specific protocol for CSP is contained in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification Issue #1, December 1990 and Technical Reference TR-TSV-000905. This feature is available only with originating Fea-ture Group D when out of band signaling is specified.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(K) Access Transport Parameter (ATP)

This option provides for the transmission of CPE compatibility information from the originating switch to the customer's premises and, on terminating access, from the customer's premises to the terminating switch. All of the information is supplied by the calling party. This feature is available only with originating Feature Group D when out-of-band signaling is specified. The specific protocol for ATP is contained in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification, Supplement, August 1992, and Technical Reference TR-TSV-000962, Issued September, 1990.

(L) Service Class Routing

This option provides the capability of directing originating traffic from an end ofice to a trunk group to a customer designated premises, based on the line class of service (e.g., coin or hotel/motel), service prefix indicator (e.g., 0-, 0+, 01+ or 011+) or service access code (e.g., Toll Free codes or 900)
It is provided in suitably equipped end office or access tandem switches and is available with Feature Group D.

(M) Alternate Traffic Routing

This option provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a customer-designated premises until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer-designated premises. The customer shall specify the last trunk CCS desired for the high usage group. It is provided in suitably equipped end office or access tandem switches and is available with Feature Groups B and D. This option may not be used in conjunction with the Tandem Access Sectorization Feature specified in Section 6.7.11.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(N) Trunk Access Limitation

This option provides for the routing of originating 900 Service calls to a specified number of transmission paths in a trunk group, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which cannot be completed over the subset of transmission paths in the trunk group, i.e., the choked calls, will be routed to reorder tone. It is provided in all Telephone Company electronic end offices and where available in electromechanical end offices. It is available with Feature Group D.

(O) Call Gapping Arrangement

This option, provided in suitably equipped end office switches, provides for the routing of originating calls to 900 Service to be switched in the end office to all transmission paths in a trunk group at a prescribed rate of flow, e.g., one call every five seconds, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which are denied access by this feature, i.e., the choked calls, will be routed to a no-circuit announcement. It is provided in selected Feature Group D equipped end offices and is available only with Feature Group D.

(P) International Carrier Option

This option allows for Feature Group D end offices or access tandem switches equipped for International Direct Distance Dialing to be arranged to forward the international calls of one or more international carriers to the customer (i.e., the Telephone Company is able to route originating international calls to a customer other than the one designated by the end user either through presubscrip-tion or 101XXXX dialing). This arrangement requires provision of written verification to the Telephone Company that the customer is authorized to forward such calls. The written verification must be in the form of a letter of agency authorizing the customer to order the option on behalf of the international carrier. This option is only provided at Telephone Company end offices or access tandems equipped for International Direct Distance Dialing. It is available with Feature Group D.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(Q) Band Advance Arrangement for Use with WATS Access Lines [1] (C)

This option, which is provided in association with two or more WATS Access Line groups, provides for the automatic overflow of terminating calls to a WATS Access Line group, when that group has exceeded its call capacity, to another WATS Access Line group with a band designation equal to or greater than that of the overflowing WATS Access Line group. This arrangement does not provide for call overflow from a group with a higher band designation to one with a lower one. This option is available with Feature Group D.

(R) End Office End User Line Service Screening for Use with WATS Access Lines

This option provides the ability to verify that an end user has dialed a called party address (by screening the called NPA and/or NXX on the basis of geographical bands selected by the Telephone Company) which is in accordance with that end user's service agreement with the customer, e.g., WATS. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices in which WATS Access Lines are provided. It is available with Feature Group D.

(S) Hunt Group Arrangement for Use with WATS Access Lines [1] (C)

This option provides the ability to sequentially access one of two or more WATS Access Lines (e.g., Toll Free Service access lines) in the terminating direction, when the hunting number of the WATS Access Line Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company end offices in which WATS Access Lines are provided. It is available with Feature Groups A, B and D.

(T) Uniform Call Distribution Arrangement for Use with WATS Access Lines [1] (C)

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available WATS Access Lines in the hunt group. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Lines are provided. For WATS Access Lines it is available with Feature Groups A, B and D.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.1 Common Switching Optional Features (Cont'd)

(U) Uniform Call Distribution Arrangement for Use with WATS Access Lines [1] (Cont'd) (C)

Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Lines

This option provides an arrangement for an individual WATS Access Line within a multi-line hunt or uniform call distribution group that provides access to that WATS Access Line within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Lines are provided. It is available with Feature Groups A, B and D.

6.3.2 Transport Termination Optional Features

(A) Rotary Dial Station Signaling

This option provides for the transmission of called party address signaling from rotary dial stations to the customer's premises for originating calls. This option is provided in the form of a specific type of Transport Termination. It is available with Feature Group B, only on a directly trunked basis.

(B) Operator Trunk - Coin, Noncoin, or Combined Coin and Noncoin

This option may be ordered to provide coin, noncoin, or combined coin and noncoin operation. It is available with Feature Group D and is provided in electronic end offices and other Telephone Company end offices where equipment is available. It is provided as a trunk type of Transport Termination.

This option is not available in combination with out-of-band signaling.

Coin: This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating coin calls requiring operator assistance to the customer's premises. Because operator assisted coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

The operator assistance coin calling arrangement is also normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's TSPS systems, rather than in the customer's manual cord boards.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.2 Transport Termination Optional Features (Cont'd)

(B) Operator Trunk - Coin, Noncoin, or Combined Coin and Noncoin (Cont'd)

Noncoin:
This arrangement provides for the routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating noncoin calls requiring operator assistance to the customer's premises. Because operator assisted noncoin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

The operator assistance noncoin calling arrangement is also normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped, with this arrangement will be terminated in the customer's TSPS systems, rather than in the customer's manual cord boards. When so equipped, the ANI feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for Network Controlled Non-Coin Lines, dormitory or Network Controlled Inmate Lines or other screening arrangements agreed to between the customer and the Telephone Company.

Combined Coin and Noncoin:
This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating operator assisted coin and noncoin calls requiring operator assistance to the customer's premises. Because operator assisted coin and noncoin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

This arrangement is normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's operator services systems, rather than in the customer's manual cord boards. When so equipped, the ANI optional feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for coinless pay telephones, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.2 Transport Termination Optional Features (Cont'd)

(C) Operator Trunk - Full Feature

This option provides the initial coin return control function to the customer's operator. It is available with Feature Group D and is provided as a trunk type for Transport Termination.

6.3.3 Switched Transport Optional Features

(A) Toll Free Data Base Access Service

Toll Free Data Base Access Service is an originating only trunk side service. When a Toll Free+NXX+XXXX call is originated by an end user, the Telephone Company will perform customer identification based on screening of the full ten digits of the Toll Free number
to determine the customer location to which the call is to be routed.

Customers have the option of specifying an area of service from which to receive calls. A specific area of service can be a LATA, state, region, USA, or USA/Canada/Caribbean.

Toll Free Data Base Access Service calls may be delivered to the customer directly from an end office only when the end office is equipped to query the Toll Free Data Base to perform ten-digit customer identification. When the end office does not have Toll Free Data Base query functionality, the query is delivered to the customer from the access tandem (all access tandems have Toll Free Data Base query functionality).

Feature Group D rates and charges apply to Toll Free Data Base Access Service calls originated from end offices with equal access capability. In addition to Feature Group D usage charges, a basic query charge as specified in 6.1.2(B)(6)(d)(1) preceding and 6.8.1(k) following applies to each Toll Free Data Base Access Service call delivered to the customer. A basic query charge consists of customer identification [i.e., Carrier Identification Number (CIC)], delivery of the dialed Toll Free ten-digit number, ANI, and the allowable area of service, designated by the customer, from which Toll Free calls can be received.

Vertical Feature Package (VFP)

This feature package, available only with Toll Free Data Base Access Service, provides feature functionality in addition to the basic query. The feature package may include various destination options such as POTS Translation, carrier selection, time-of-day routing,
day-of-week routing, specific-date routing, geographic routing, routing based on percent of allocation, and emergency routing profiles.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.3 Switched Transport Optional Features (Cont'd)

(A) Toll Free Data Base Access Service (Cont'd)

Transmission Specifications

Toll Free Data Base Access Service is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or C is provided.

- When routed to an access tandem only Type A is provided.

- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 through 10.

For Toll Free Data Base Access Service traffic originating from end offices with Data Base query functionality, all normal Feature Group D parameters apply.

For Toll Free Data Base Access Service traffic originating from all other end offices, Type A Transmission Specifications are provided for the facility between the access tandem and the customer's premises.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.3 Switched Transport Optional Features (Cont'd)

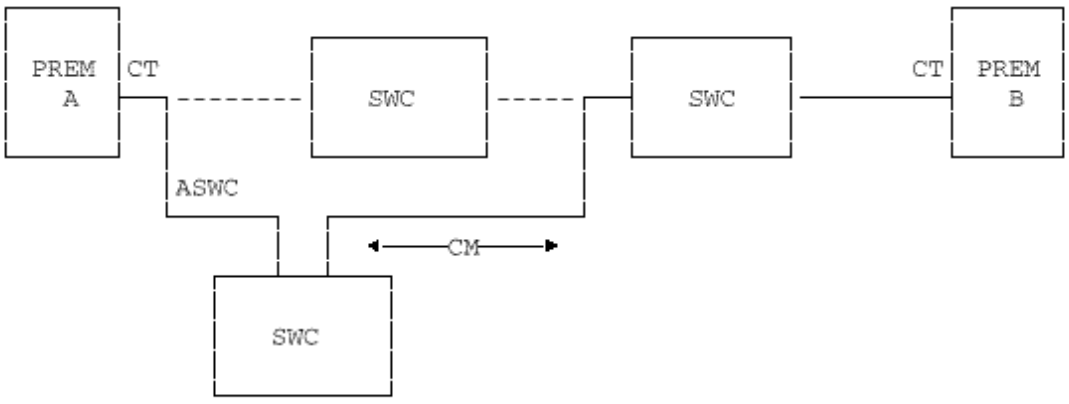
(B) Alternate Serving Wire Center

(1) Alternate Serving Wire Center (ASWC) is an optional feature which provides a transmission path for DS1 or DS3 Entrance Facilities between the customer's designated premises and a serving wire center separate from the normal serving wire center.

(2) The Telephone Company will designate the serving wire center to be used as the alternate. The ASWC feature is available where contiguous wire centers with adjacent fiber feeder routes exist. Where facilities are not available, Special Construction rates and regulations may apply as set forth in the appropriate Special Construction tariff. Where service is available, provisioning is based on a Negotiated Interval as described in 5.2.1(B) preceding.

(3) The rate for Alternate Serving Wire Center, as specified in 6.8.1 following, applies per point of termination, and is in addition to the Entrance Facilities and Direct-trunked Transport Charges for each DS1 or DS3 service provided over the alternate path. Direct-trunked Transport for the alternately routed service is based on mileage measured from or to the alternate serving wire center.

Example:
Rate application for a High-Capacity service connecting two customer premises via ASWC.



Rate Elements	Applicable Charges
2 Channel Terms (CT)	Monthly and nonrecurring
Channel Mileage (CM)	Monthly
1 ASWC	Monthly

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.4 Common Channel Signaling Access Service

Common Channel Signalling Access Service (CCSAS) enables a customer that is connected to the Telephone Company's SS7 network to exchange SS7 messages among and between interconnected switching elements and signaling transfer points (STPs). CCSAS connectivity will support the functions of all other network elements connected to the Telephone Company's SS7 network. This includes the use of the Telephone Company's SS7 network to convey messages which neither originate nor terminate at a Telephone Company signaling point (SP) or service switching point (SSP) (i.e., transient messages). When the Telephone Company's SS7 network is used to convey these transient messages, there shall be no alteration of the Integrated Services Digital Network User Part (ISDNUP) or the Transaction Capabilities Application Part (TCAP) user data that constitutes the content of the message. CCSAS connectivity also includes use of the Telephone Company's SS7 network to convey messages initiated from a customer's SSP to the Telephone Company's AIN Signaling Control Point (SCP), LIDB, Toll Free and BVS databases.

CCSAS is provisioned for two-way transmission of out-of-band SS7 signaling information.

Each CCSAS Signaling Connection provides two-way digital transmission at a speed of 56 Kbps. The connection to the Telephone Company's STP pair can be made from either the customer's SP, which requires a minimum of two 56 Kbps circuits, or from the customer's STP pair, which requires a minimum of four 56 Kbps circuits. The STP locations are set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. (NECA) TARIFF F.C.C. NO.4. Where multiple STP pairs are deployed in a Telephone Company LATA, Telephone Company end offices or tandems are interconnected to only one STP pair. The customer must route terminating traffic to the STP pair serving the end office or tandem switch where the call is to be terminated.

Customers ordering CCSAS in connection with BSA-101XXXX Option and FGD are subject to the requirements specified in 2.3.9 and 2.3.10(A) preceding.

SWITCHED ACCESS SERVICE

6.3 Common Switching and Transport Termination Optional Features (Cont'd)

6.3.4 Common Channel Signaling Access Service (Cont'd)

When CCSAS is ordered, network compatibility and other operational tests will be performed jointly between the Telephone Company and the customer at locations, dates, and times as specified by the Telephone Company in consultation with the customer. These tests are as specified in Generic Requirements GR-905-CORE, Issue 1, March 1995. When a 64 Kbps clear channel circuit (CCC) is ordered, the SS7 interfaces as specified in Technical Reference TR-TSV-00962, Issue 1, September 1990, will also be tested. Successful completion of the appropriate tests is necessary to receive CCSAS. To protect the security of the network, certain information (i.e., point codes) provided by the Telephone Company to the customer will be subject to a non-disclosure agreement.

At the customer's request, CCSAS will be modified to accept SS7 signaling messages and protocol specified in TR-TSV-00962, Issue 1, September 1990 when trunkside BSA-101XXXX Option and FGD with out-of-band signaling is provided in accordance with 6.1.2(B)(6)(e). Successful completion of testing in accordance with TR-TSV-00962 is also required in this scenario.

CCSAS is subject to the rates and charges as specified in 6.7.1(C)(3) and 6.8.1(F) and (L) following. A monthly recurring distance-sensitive STP Mileage charge will be assessed on a per dedicated 56 Kbps out-of-band signaling connection basis for transport of signaling information between the customer's SPOI and the Telephone Company's STP. A monthly recurring STP Port charge will be assessed on a per port basis for the customer's dedicated port at the Telephone Company's STP. A nonrecurring Switched Access Connection charge will be assessed per 56 Kbps dedicated out-of-band signaling connection.

6.4 Transmission Specifications

Each Switched Access Service transmission path is provided with standard transmission specifications. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Switched Access Service, the Interface Group and whether the service is directly routed or via an access tandem. In addition, the WATS Access Line [1] is provided with standard transmission specifications for two-wire and four-wire. The available transmission specifications are set forth in 6.4.1 following. Data Transmission Parameters are also provided with each Switched Access Service transmission path and WATS Access Line [1]. The Telephone Company will, upon notification by the customer that the data parameters set forth in 6.4.2(A), 6.4.2(B) or 6.4.2(C) are not being met, conduct tests independently or in cooperation with the customer, and take any necessary action to insure that the data parameters are met. (C) (C)

In addition, the WATS Access Line [1] may be optionally provided with Improved Two-wire Transmission Specifications as specified in 6.4.3 following. (C)

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.4 Transmission Specifications (Cont'd)

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to the effective date of this tariff except that service configurations having performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in this tariff.

The transmission specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Technical Reference PUB 62500. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

Transmission specifications for out of band signaling connections are set forth in the Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification, Issue #1, December 1990, and in Technical Reference TR-TSV-000905.

Transmission specifications for 64 Clear Channel Capability, when provisioned with FGD with out of band signaling are set forth in Technical Reference TR-NWT-000938, Issued August 1990.

6.4.1 Standard Transmission Specifications

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Services and the two Standard Transmission Specifications for WATS Access Lines. The specific applications in terms of the Switched Access Services and Interface Groups with which the Feature Group Standard Transmission Specifications are provided are set forth in 6.2.1(C), 6.2.2(C) and 6.2.3(C) preceding.

(A) Type A Transmission Specifications

Type A Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is + 2.0 dB

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

Route Miles	C-Message Noise
less than 50	32 dBrnCO
51 to 100	34 dBrnCO
101 to 200	37 dBrnCO
201 to 400	40 dBrnCO
401 to 1000	42 dBrnCO

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6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBrnCO.

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's Point of Termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	21 dB	14dB
POT to End Office		
Direct	NA	N/A
Via Access Tandem	16 dB	11 dB

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire ports of a four-wire Point of Termination shall be equal to or greater than:

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(B) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is $\pm$ 2.5 dB.

SWITCHED ACCESS SERVICE

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

	C-Message Noise*	
Route Miles	Type B1	Type B2
less than 50	32 dBrmCP	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone is less than or equal to 47 dBrnCO.

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's Point of Termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Switched Access Service, type of termination, and type of transmission path. They are greater than or equal to the following:

* For Feature Group D, only Type B2 will be provided. For Feature Groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference PUB 62500.

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6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

	Echo Return Loss	Singing Return Loss
POT to Access Tandem		
Terminated in 4-wire trunk	21 dB	14 dB
Terminated in 2-wire trunk	16 dB	11 dB
POT to End Office		
Direct	16 dB	11 dB
Via Access Tandem For FGB access	8 dB	4 dB

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of termination shall be equal to or greater than:

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(C) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is $\pm$ 3.0 dB.

SWITCHED ACCESS SERVICE

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(C) Type C Transmission Specifications (Cont'd)

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

	C-Message Noise*	
Route Miles	Type C1	Type C2
less than 50	32 dBrnCO	38 dBrnCO
51 to 100	33 dBrnCO	39 dBrnCO
101 to 200	35 dBrnCO	41 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone is less than or equal to 47 dBrnCO.

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's Point of Termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	13 dB	6 dB
POT to End Office		
Direct	13 dB	6 dB
Via Access Tandem (for FGB only)	8 dB	4 dB

* For Feature Group D, only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference PUB 62500.

SWITCHED ACCESS SERVICE

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(D) WATS Access Line Standard Transmission Specifications [1] - Grandfathered (C) (C)

(1) Standard Two-Wire Transmission Specifications

(a) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 4.0 dB.

(b) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -3.0 dB to +9.0 dB.

(c) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

Route Miles	C-Message Noise
less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

(d) Echo Control

Return Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	6.0 bB
SRL	3.0 dB

(2) Standard Four-Wire Transmission Specifications

(a) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -3.0 dB to +3.0 dB.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(D) WATS Access Line Standard Transmission Specifications [1] - Grandfathered (Cont'd) (C) (C)

(2) Standard Four-Wire Transmission Specifications (Cont'd)

(b) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -1.0 dB to +4.5 dB.

(c) C-Message Noise

The Maximum C-Message Noise for the transmission path at the route miles listed is less than:

Route Miles	C-Message Noise
less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

(d) Echo Control

The Equal Level Echo Path Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	15.0 dB
SRL	9.0 dB

6.4.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for Switched Access Service Arrangements. The specific applications in terms of the Feature Groups with which they are provided are set forth in 6.2.1(C), 6.2.2(C) and 6.2.3(C) preceding. In addition, the WATS Access Line [1] is provided with Data Transmission Parameters. Following are descriptions of each. (C)

(A) Data Transmission Parameters Type DA

(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.4 Transmission Specifications (Cont'd)

6.4.2 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles	500 microseconds
equal to or greater than 50 route miles	900 microseconds

1004 to 2404 Hz

less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

SWITCHED ACCESS SERVICE

6.4 Transmission Specifications (Cont'd)

6.4.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds

1004 to 2404 Hz

less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(C) WATS Access Line Data Transmission Parameters [1] - Grandfathered (C)

(1) Signal to C-Notched Noise Ratio

The maximum Signal to C-Notched Noise Ratio is 30 dB.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.4 Transmission Specifications (Cont'd)

6.4.2 Data Transmission Parameters (Cont'd)

(C) WATS Access Line Data Transmission Parameters [1] – Grandfathered (Cont'd) (C)

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands specified is:

1000 microseconds	604 to 2804 Hz
500 microseconds	1000 to 2404 Hz

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

6.4.3 WATS Access Line [1] - Grandfathered (C)

(A) Improved Two-Wire Voice Transmission Specifications

(1) Loss Deviation

The Maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 dB to +4.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.4 Transmission Specifications (Cont'd)

6.4.3 WATS Access Line [1] - Grandfathered (Cont'd) (C)

(A) Improved Two-Wire Voice Transmission Specifications (Cont'd)

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

Route Miles	C-Message Noise
less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

6.5 Obligations of the Telephone Company

In addition to the obligations of the Telephone Company set forth in Section 2 preceding, the Telephone Company has certain other obligations pertaining only to the provision of Switched Access Service. These obligations are as follows:

6.5.1 Network Management

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and customers are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., those actions, such as call gapping, which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with a customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in 2.4.4(B)(3) preceding.

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.5 Obligations of the Telephone Company (Cont'd)

6.5.2 Design and Traffic Routing of Switched Access Service

For Switched Access Services, the customer and the Telephone Company will apply a capacity threshold test to determine the design and routing of the Switched Access Service. When the amount of estimated traffic to and/or from an end office is equal to or less than 750 busy hour minutes of use, the customer may specify whether the traffic is to be routed directly between the end office and customer's location or whether all or a portion of the traffic should be routed via an access tandem. When the amount of estimated traffic to and/or from an end office exceeds 750 busy hour minutes of use, the Telephone Company will work cooperatively with the customer to design and determine the routing and directionality using either direct final trunks or a combination of direct high usage trunks between the end office and the customers location, with alternate route trunks via the access tandem.

The Telephone Company will determine whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment. Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and the Telephone Company traffic routing plans.

6.5.3 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may also be made available to the customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and noncompletion performance, e.g., customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an Individual Case Basis.

6.5.4 Trunk Group Measurements Reports

Subject to availability, the Telephone Company will make available trunk group data in the form of usage in CCS, peg count and overflow, to the customer based on previously agreed to intervals.

SWITCHED ACCESS SERVICE

6.5 Obligations of the Telephone Company (Cont'd)

6.5.5 Determination of Number of Transmission Paths

For Switched Access Service ordered on a per-line or per-trunk basis respectively, the customer specifies the number of transmission paths in the order for service.

The following applies to Switched Access Voice Transmission Path, and does not apply to signaling connections provided with CCSAS. The number of transmission paths for out-of-band signaling connections will be determined jointly by the Telephone Company and the customer.

The Telephone Company will determine the number of Switched Access Service transmission paths to be provided for the Switched Access Services ordered in busy hour minutes of capacity. A transmission path is a communications path within the frequency bandwidth of approximately 300 Hz to 3000 Hz or a derived communication path of a frequency bandwidth of approximately 300 Hz to 3000 Hz provided over a high frequency analog facility or a high speed digital facility between a customer's location and a Telephone Company location. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in 6.1.1(F) preceding) for the end offices for each Switched Access Service ordered from a customer's location. The total busy hour minutes of capacity by type for the end office will be converted to transmission paths using standard Telephone Company traffic engineering methods. The number of transmission paths provided shall be the number required based on: 1) the use of access tandem switches and end office switches, 2) the use of end office switches only, or 3) the use of tandem switches only.

6.5.6 Determination of Number of End Office Transport Terminations

For analog entry switches, a termination will be provided for each transmission path provided. For digital entry switches, an equivalent termination will be provided for each transmission path provided.

6.5.7 Design Blocking Probability

The Telephone Company will design the facilities for the provision of tandem circuits used for common transport between the access tandem and the end office.

In addition, the Telephone Company will perform routine measurement functions in accordance with Telephone Company blocking objectives to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional trunks be ordered by the customer when required to reduce the measured blocking to the objective.

(A) For FGA and FGB (Lineside BSA and Trunkside BSA - 950 Option) no blocking criteria apply.

(B) The blocking objective for FGB on D and FGD (Trunkside BSA - MTS/WATS Option) will be no greater than one percent (.01) between the point of termination at the customer’s premises and the first point of switching in the Telephone Company’s network when traffic is directly routed without an alternate route. For this directly routed traffic, the objective is solely a function of the customer’s network design.

SWITCHED ACCESS SERVICE

6.5 Obligations of the Telephone Company (Cont'd)

6.5.7 Design Blocking Probability (Cont'd)

(C) The blocking objective for FGD (Trunkside BSA - 10XXX/101XXXX) will be no greater than one percent (.01) between the point of termination at the customer's premises and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem. For traffic routed via an access tandem, the objective is a combination of the Telephone Company's common transport design capacity and the customer's network design capacity.

(D) Standard traffic engineering methods as set forth in Technical Reference PUB SR EDP, Trunk Traffic Engineering Concepts and Applications, will be used by the Telephone Company to determine the number of trunks required to achieve the blocking objectives in all cases.

The design blocking objective is assumed to have been met if the routing measurements show that the measured blocking does not exceed the thresholds listed in the following tables:

Number of Transmission Paths, per trunk group	Measured Blocking Thresholds in the Time Consistent Busy-hour for the Number of Measurements, per trunk group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	.070	.080	.090	.140
3	.050	.060	.070	.090
4	.050	.060	.070	.080
5-6	.040	.050	.060	.070
7 or more	.030	.035	.040	.060

(1) For transmission paths carrying first routed traffic between an end office and customer's location via an access tandem, the measured blocking thresholds are as follows:

Number of Transmission Paths, per trunk group	Measured Blocking Thresholds in the Time Consistent Busy-hour for the Number of Measurements, per trunk group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	.045	.055	.060	.095
3	.035	.040	.045	.060
4	.035	.040	.045	.055
5-6	.025	.035	.040	.045
7 or more	.020	.025	.030	.040

SWITCHED ACCESS SERVICE

6.5 Obligations of the Telephone Company (Cont'd)

6.5.8 Operator Transfer Service

Upon customer request, the Telephone Company will provide a list identifying Operator Services access points for use with Operator Transfer Service as specified in 6.2.3(A)(9) preceding. Additionally, the Telephone Company will define the service areas of designated Operator Services access points and will identify the signalling capability of end offices in the service area.

6.6 Obligations of the Customer

In addition to the obligations of the customer set forth in Section 2 preceding, the customer has certain specific obligations pertaining to the use of Switched Access Service. These obligations are as follows:

6.6.1 Report Requirements

Customers are responsible for providing the following reports to the Telephone Company, when applicable.

(A) Jurisdictional Reports

When a customer orders Switched Access Service for both interstate and intrastate use, the customer is responsible for providing reports as set forth in 2.3.10 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the intrastate charges is set forth in 2.3.11 preceding.

(B) Code Screening Reports

When a customer orders service class routing, trunk access limitation or call gapping arrangements, it must report the number of trunks and/or the appropriate codes to be instituted in each end office or access tandem switch, for each of the arrangements ordered.

6.6.2 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook answer and disconnect supervision. For Toll Free Data Base Access Service which originates from end offices with the customer identification function, and for Feature Group B, the customer shall provide answer off-hook signal upon completion of the outpulsed signaling sequence at his point of termination.

For Feature Group D, including Toll Free Data Base Access Service from end offices with the customer identification function, the customer shall return answer off-hook signal when the called party answers.

SWITCHED ACCESS SERVICE

6.6 Obligations of the Customer (Cont'd)

6.6.3 Trunk Group Measurements Reports

With the agreement of the customer, trunk group data in the form of usage in CCS, peg count and overflow for its end of all access trunk groups, where technology feasible, will be made available to the Telephone Company. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

6.6.4 Design of Switched Access Services

When a customer orders Feature Group D Switched Access Service or trunks for Toll Free Data Base Access Service, it is the customer's responsibility to assure that sufficient access Services have been ordered to handle its traffic or the blocking charge as specified in 6.7.9 will be applied.

6.7 Rate Regulations

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

6.7.1 Description and Application of Rates and Charges

There are three types of rates and charges that apply to Switched Access Service. These are monthly recurring rates, usage rates and nonrecurring charges. These rates and charges are applied differently to the various rate elements as set forth following.

(A) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a specific rate element is provided. For billing purposes, each month is considered to have 30 days.

(B) Usage Rates

Usage rates are rates that apply only when a specific rate element is used. These are applied on a per access minute or per call basis. Access minute charges are accumulated over a monthly period.

(C) Nonrecurring Charges

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

(1) Certain nonrecurring charges applicable to the installation of access service consist of a "first" and "additional" charge. For each facility, line, or trunk ordered, the first charge applies to the first facility, line, or trunk specified on the order, with the additional charge applied to each additional facility, line, or trunk specified on the same order between same locations.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.1 Description and Application of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(1) Installation of Service

Nonrecurring charges apply when Common Channel Signaling Access Service is installed for use with Feature Group D as specified in 6.8.1 following.

(2) Service Rearrangements

All changes to existing services other than changes involving administrative activities only will be treated as a discontinuance of the existing service and an installation of a new service. The nonrecurring charge described in (1) preceding will apply for this work activity. Moves that change the physical location of the point of termination are described and charged for as set forth in 6.7.4 following.

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

Change of customer name,
Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
Change in billing data (name, address, or contact name or telephone number),
Change of agency authorization,
Change of customer circuit identification,
Change of billing account number,
Change of customer test line number,
Change of customer or customer's end user contact name or telephone number and
Change of jurisdiction.

All other service rearrangements will be charged for as follows:

A charge as specified in 6.8 following will apply on each transmission path reconfigured from:

- SS7 signaling to MF signaling
- 64CCC to SS7 signaling
- 64CCC to MF signaling

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.1 Description and Application of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(2) Service Rearrangements (Cont'd)

When out-of-band signaling or 64CCC is ordered, the customer may add Calling Party Number (CPN), Charge Number (CN), Carrier Selection Parameter (CSP), and Access Transport Parameter (ATP) at no additional charge if these features are specified at the time out-of-band signaling or 64CCC is ordered for existing switched access trunks.

Rearrangement charges apply on a per-termination basis for the following service rearrangements:

(a) rearranging an existing subtending service from one port to another in the same multiplexing arrangement;

(b) rearranging an existing subtending service from one multiplexing arrangement to another like multiplexing arrangement in the same wire center; and

(c) rearranging an existing service into a high capacity service multiplexing arrangement in the same wire center.

When services are rearranged as described above, the "Additional" rate element for the Rearrangement Charges may apply to all such rearranged services beyond the first without regard to their end-point locations, so long as they are all of the same service type, have the same date due, and are all being rearranged to the same multiplexer as the service which is incurring the associated "First" Rearrangement Charge.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.1 Description and Application of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Connection Charge

The Switched Access Connection Charge recovers the costs of connecting the trunks/line to the switch. These charges are in addition to any facility charges and are to be applied on a per-line/per-trunk basis.

(4) Service Order Charge

The Service Order Charge applies to every order issued and is in addition to all other applicable nonrecurring charges.

(5) In addition, the facility nonrecurring charge will not apply for changing facility capacity or facility interface (i.e., changes from or to Voice Grade, DS1 or DS3 facilities). No facility nonrecurring charge will apply for adding new facilities as well as rearranging trunks on existing facilities in order to increase utlization or fill.

(D) Switched Transport Rate Elements

(1) Entrance Facility

The Entrance Facility monthly rate provides for the communication path between a customer's premises and the SWC of that premises and is assessed based on the capacity of the facilities provided (e.g., Voice Grade, DS1, or DS3). When FGA service is ordered, the Voice Grade Entrance Facility rate is assessed for each line requested unless the customer requests an Entrance Facility of higher capacity. The Entrance Facility rate is assessed when the customer premises and the SWC are in the same building. The Entrance Facility rate is in addition to the rates assessed for Direct-trunked Transport and Tandem Switched Transport.

(2) Direct-trunked Transport

The Direct-trunked Transport monthly rate provides for the transmission facilities between the SWC of the customer's facilities to the end office based on the capacity of the facility requested, i.e. Voice Grade, DS1, or DS3. When FGA Switched Access service is ordered, the Voice Grade Direct-trunked Transport rate is assessed for each Lineside service requested unless the customer requests a Direct-trunked Transport facility of higher capacity. There are two rates that apply, a fixed rate and a rate per mile. The Direct-trunked Transport rate is in addition to the Entrance Facility rate. Mileage measurement is described in 6.7.9 following.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.1 Description and Application of Rates and Charges (Cont'd)

(D) Switched Transport Rate Elements (Cont'd)

(3) Tandem Transport Charge

The Tandem Transport Charges are assessed on both a minute of use and a monthly charge basis. These rates have a fixed and per mile component. The Tandem Transport rate is in addition to the Entrance Facility rate. Mileage measurement is described in 6.7.9 following.

(4) Tandem Switching

The Tandem Switching rate is assessed on a per minute of use basis and is applicable to all Switched Access minutes of use utilizing an access tandem via Tandem Switched Trunk. The Tandem Switching rate is in addition to the Tandem Transmission rate and the rates associated with the Entrance Facility.

(5) Dedicated Tandem Trunk Port

The Dedicated Tandem Trunk Port is a monthly rate assessed per activated trunk for every dedicated trunk terminating on the serving wire center side of the access tandem. Rates and charges are set forth in Section 6.8 following.

(6) Where Switched Access Service is used to carry traffic originated from a TRS Center, Switched Transport rates apply. Local Switching rates do not apply.

(7) The following rate elements apply for FGA provided with a voice grade interface

Recurring Rate Elements

- Entrance Facility - 2 wire or 4 wire
- Direct Trunked Transport, fixed and per mile, measured from the SWC to the DTO.

Terminating Usage Rate Elements

- Tandem fixed MOU and per mile MOU rates apply from the DTO to the End Office where the call terminates.
- Local Switching MOU.

Originating Usage Rate Elements

- Local Switching MOU

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.1 Description and Application of Rates and Charges (Cont'd)

(D) Switched Transport Rate Elements (Cont'd)

(8) The following rate elements apply for FGA provided with a digital interface

Recurring Rate Elements

- Entrance Facility - DS1
- Direct-Trunked Transport, fixed and per mile, measured from the SWC to the DTO.
- Multiplexer

Originating and Terminating Usage

- Local Switching MOU

If the facility terminates at a remote switch, tandem fixed and per mile per MOU may also apply.

(9) Multiplexing

No multiplexing charge will apply if an individual circuit carrying trunks is at a DS1 level (Entrance Facilities and Direct Trunked Transport) and terminating at a specific switch.

6.7.2 Minimum Periods

The minimum service period for switched transport entrance facilities and direct trunked transport are as follows:

DS1 1 month
DS312 months

All other Switched Access Service is provided for a minimum period of one month.

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

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.3 Change of Feature Group Type

Changes from one type of Feature Group to another will be treated as a discontinuance of one type of service and a start of another. Nonrecurring charges will apply, with one exception. When a customer upgrades a Feature Group A or B service to a Feature Group D service, the nonrecurring charges will not apply. When a customer upgrades a Feature Group A or B service to Feature Group D service, minimum period obligations will not change, i.e., the time elapsed in the existing minimum period obligations will be credited to the minimum period obligations for Feature Group D service. For all other changes from one type of Feature Group to another, new minimum period obligations will be established.

6.7.4 Moves

A move involves a change in the physical location of one of the following:

The point of termination at the customer location
The customers location

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.4 Moves (Cont'd)

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring charge for the capacity affected. There will be no change in the minimum period requirements.

(B) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new service. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

6.7.5 Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded or assumed) by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured (i.e., recorded or assumed) by the Telephone Company to determine the basis for computing chargeable access minutes. For terminating calls over usage rated FGA and FGB, Toll Free Data Base Access Service and FGD, and for originating calls over usage rated MTS/WATS-type FGA and FGB and FGD, the measured access minutes are the chargeable access minutes. For originating calls over usage-rated FX/ONAL FGA, chargeable access minutes are derived from recorded minutes in the following manner:

Step 1: Obtain recorded originating minutes and messages (measured as set forth in (A) and (C) following for FX/ONAL FGA) from the appropriate recording data.

Step 2: Obtain the total attempts by dividing the originating measured messages by the completion ratio. Completion ratios (CR) are obtained separately for the major call categories such as DDD, operator, Toll Free Data Base Access Service, 900, directory assistance and international from a sample study which analyzes the ultimate completion status of the total attempts which receive acknowledgement from the customer. That is, Measured Messages divided by Completion Ratio equals Total Attempts.

Step 3: Obtain the total nonconversation time additive (NCTA) by multiplying the total attempts (obtained in Step 2) by the NCTA per-attempt ratio. The NCTA per-attempt ratio is obtained from the sample study identified in Step 2 by meauring the nonconversation time associated with both completed and uncompleted attempts. The total NCTA is the time on a completed attempt from customer acknowledgement of receipt of call to called party answer (set up and ringing) plus the time on an uncompleted attempt from customer acknowledgement of call until the access tandem or end office receives a disconnect signal (ring - no answer, busy or network blockage). That is, Total Attempts times Nonconversation Time per-attempt ratio equals Total NCTA.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.5 Measuring Access Minutes (Cont'd)

Step 4: Obtain total chargeable originating access minutes by adding the total NCTA (obtained in Step 3) to the recorded originating measured minutes (obtained in Step 1). That is, Measured Minutes plus NCTA equals Chargeable Originating Access Minutes.

Following is an example which illustrates how the chargeable originating access minutes are derived from the measured originating minutes using this formula.

Where:
Measured Minutes (M. Min.) = 7,000
Measured Messages (M. Mes.) = 1,000
Completion Ratio (CR) = .75
NCTA per Attempt = .4

(1) Total Attempts = $\frac{1{,}000 \text{ (M. Mes.)}}{.75 \text{ (CR)}}$ = 1,333.33

(2) Total NCTA = .4 (NCTA per Attempt) x 1,333.33 = 533.33

(3) Total Chargeable Originating Access Minutes= 7,000(M. Min) + 533.33(NCTA) = 7,533.33

When assumed minutes are used, the assumed minutes are the chargeable access minutes.

Usage rated FGA access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each line or hunt group, and are then rounded up to the nearest access minute for each line or hunt group. Usage-rated FGB and FGD access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

Assumed minutes are used for FX/ONAL FGA services which originate or terminate in end offices not equipped with measurement capabilities. The assumed average access minutes where measurement capability is not available are as set forth in 3.6(C) preceding.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.5 Measuring Access Minutes (Cont'd)

(A) Feature Group A Usage Measurement

For originating calls over FGA, usage measurement begins when the originating FGA entry switch receives an off-hook supervisory signal forwarded from the customer's point of termination. (Where FGA is used for MTS/WATS-type services, this off-hook signal is generally provided by the customer's equipment. Where FGA is used for FX/ONAL services, the off-hook signal is generally forwarded by the customer's equipment when the called party answers.)

The measurement of originating call usage over FGA ends when the originating FGA entry switch receives an on-hook supervisory signal from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over FGA, usage measurement begins when the terminating FGA entry switch receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over FGA ends when the terminating FGA entry switch receives an on-hook supervisory signal from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

(B) Feature Group B Usage Measurement

For originating calls over FGB, usage measurement begins when the originating FGB entry switch receives answer supervision forwarded from the customer's point of termination, indicating the customer's equipment has answered.

The measurement of originating call usage over FGB ends when the originating FGB entry switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over FGB, usage measurement begins when the terminating FGB entry switch receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.5 Measuring Access Minutes (Cont'd)

(B) Feature Group B Usage Measurement (Cont'd)

The measurement of terminating call usage over FGB ends when the terminating FGB entry switch receives disconnect supervision from wither the terminating end user's end office indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

(C) Feature Group D Usage Measurement

For originating calls over FGD, usage measurement begins when the originating FGD entry switch receives the first wink supervisory signal forwarded from the customer's point of termination. For originating calls over Feature Group D with out-of-band signaling, usage measurement begins when the last point of switching sends the initial address message to the customer.

The measurement of originating call usage over FGD ends when the originating FGD entry switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over FGD, the measurement of access minutes begins when the terminating FGD entry switch receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

The measurement of terminating call usage over FGD ends when the terminating FGD entry switch receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For purposes of assessing the Operator Transfer Service charge as specified in 6.1.2 preceding and 6.8.6 following, a call is considered transferred when the Telephone Company operator activates the switch transferring the call to the designated customer.

(D) Toll Free Data Base Access Service Usage Measurement

Usage measurement from equal access end offices without the customer identification function begins when the end office switch receives answer supervision from the customer's point of termination. The
usage measurement ends when the originating end office receives on-hook supervision from the customer's point of termination.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.5 Measuring Access Minutes (Cont'd)

(D) Toll Free Data Base Access Service Usage Measurement (Cont'd)

Usage measurement from equal access end offices with the customer identification function begins when the end office switch receives the first wink supervisory signal forwarded from the customer's point of termination. The usage measurement ends when the originating end office receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the end office.

6.7.6 Application of Rates for Extension Service

Feature Group A Switched Access Service and Feature Group D WATS Access Lines are available with extensions, i.e., additional terminations of the service at different building(s) in a different LATA. Feature Group A extensions within the LATA are provided and charged for under the Channel Services Tariff. Feature Group A extensions in different LATAs and Feature Group D WATS Access Line extensions in different LATAs are provided and charged for as Special Access Service. The rate elements which apply are: A Voice Grade Channel Termination, Channel Mileage, if applicable, and Signaling Capability, if applicable. All appropriate monthly rates and nonrecurring charges set forth in Section 7.5.3 following will apply.

6.7.7 Message Unit Credit

Calls from end users to the seven-digit local telephone numbers associated with Feature Group A Switched Access Service are subject to Telephone Company local tariff charges (including local usage and long distance charges as applicable). The monthly bills rendered to customers for their Feature Group A Switched Access Service will include a credit to reflect any local usage charges collected from their end users under the Telephone Company's Local Exchange Services Tariff. No credit will apply for any terminating FGA access minutes. No local usage credit will be given when local business exchange rates apply. The message unit credit for originating access minutes is as set forth in 6.8.5 following.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.8 Local Information Delivery Services

Calls over Switched Access in the terminating direction to certain community information services will be rated under the applicable rates for Switched Access Service as set forth in 6.8 following. In addition, the charges per call as specified under the Telephone Company's Local Exchange Services Tariff (e.g., Audiotex Service) will also apply.

6.7.9 Mileage Measurement

The mileage to be used to determine the monthly rate for the Switched Transport of usage rated access minutes is calculated on the airline distance between the end office switch where the call carried by Switched Transport originates or terminates and the customer's serving wire center, except as set forth in (A) through (E) following. Where applicable, the V&H coordinates method is used to determine mileage.

To determine the rate to be billed, first compute the mileage using the V&H coordinates method, then find the band into which the computed mileage falls and apply the rate. If the calculation results in a fraction of a mile, always round up to the next whole mile and apply the rates.

Exceptions to the mileage measurement rules are as follows:

(A) Mileage for Feature Group A Switched Access Service will be calculated on an airline basis, using the V&H coordinates method, between the end office switch where the Feature Group A switching dial tone is provided and the customer's serving wire center for the Switched Access Service provided. Mileage is then measured from the DTO to the end office where the call is terminated. The mileage is usage sensitive.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.9 Mileage Measurement (Cont'd)

(B) Mileage measurement for CCSAS will be calculated on an airline basis, using the V&H coordinates method, between the serving wire center of the customer's SPOI and the Telephone Company's STP.

(C) Tandem Transport mileage is measured from the customer's SWC to the end office, unless the customer has ordered Direct Trunked transport to the tandem. The DTT mileage will be measured from the SWC to the tandem and the tandem or common mileage will be measured from the tandem to the end office. The tandem or common mileage is usage sensitive. The DTT is rated monthly.

(D) Mileage measurement to a remote switching module (RSM) is calculated on an airline basis using the V&H coordinates method, between the end office that serves as the host switch for the RSS and the customer's SWC for the Switched Access provided. This mileage is usage sensitive.

(E) A serving wire center associated with a customer's designated premises used as a mileage measuring point may be either the wire center from which the customer would normally obtain dial tone or an alternate serving wire center as described in 6.3.3(B.) preceding.

6.7.10 Shared Use

Shared use occurs when Special Access service and Switched Access Service are provided over the same High Capacity service through a common interface. The facility will be ordered, provisioned and rated at Switched Access (i.e., Entrance Facility, Direct Trunked Transport, as appropriate and Multiplexing, as appropriate) between the customer designated facilities and the Telephone Company SWC or Hub. When the customer chooses to use a portion of the available capacity for providing Special Access Service, then as each circuit is activated for Special Access Service, the Switched Access High Capacity Entrance Facility, Direct Trunked Transport, and multiplexer rates will be adjusted accordingly (e.g., for a VG capacity Special Access 1/24th of a DS1 service, 1/672nd of a DS3 service, etc.). Special Access Service rates and charges, as set forth in 7.5 following, will apply for each circuit of the shared use facility that is used to provide a Special Access Service when the original service is ordered as Switched Access.

The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate Switched Access Services. Switched Access Service rates and charges as set forth in 6.8 following, will apply for each circuit of the Shared Use Facility that is used to provide a Switched Access Service when the base service is ordered as Switched Access. The spare channels will be assigned to either Switched Access or Special Access for rating purposes depending on how the customer ordered the service: i.e., Switched Access or Special Access respectively.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.10 Shared Use (Cont'd)

The customer must place an order for each individual Switched or Special Access Service using the Shared Use Facilities and specify the circuit assignment for each service.

When Switched Access Service Direct Trunked Transport is provided using a circuit of the Shared Use Facility to a Hub, High Capacity rates and charges will apply for the facility from the customer designated premises to the Hub and individual service rates and charges will apply from the Hub to the Access Tandem or End Office. The rates and charges that will apply to the portion from the Hub to the Access Tandem of End Office will be dependent on the specific type of Switched Access Service that is provided (i.e., Voice Grade, or DS1). The rates and charges that will apply to the portion from the customer designated facilities to the Hub will be prorated based on the capacity of the Shared Use facility to the Hub. The applicable rates and charges will include Entrance Facility and Direct Trunked Transport rates and charges, if applicable, and multiplexing, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate circuit type.

Should the customer displace the entire capacity of the Switched Transport Service with Special Access Service, the Switched Transport Service will, for billing purposes, be considered disconnected [Any future capacity due to a customer's disconnect of Switched Access Service will be considered Telephone Company inventory]. Should the customer subsequently order Switched Transport Service, this will be treated as a new order and full rates and charges for the Switched Access Service type ordered will apply.

6.7.11 Host/Remote

Direct Trunk Transport (DTT) may be ordered to a host switch. DTT rates will apply to the host switch. For service to a remote switch, tandem fixed and per mile/per MOU rates will apply between the host and remote switches. No tandem switching will apply.

Tandem transport may also be ordered to a host switch. The transport will be measured as tandem fixed and per mile/per MOU from the tandem to the host. Tandem switching will apply. For service to a remote switch, a tandem fixed and per mile/per MOU charge will also apply from the host to the remote switch subtending the host.

FGA terminating service will be measured from the Dial Tone Office to the host and the tandem fixed and per mile/per MOU charge will apply. If the call is made to the remote, another tandem fixed and per mile/per MOU charge will apply from the host to the remote subtending the host. Tandem switching will not apply.

A nonrecurring Remote Translation charge will apply for those customer requests which require a unique routing arrangement. This charge will apply per Remote Trunk Group, per occurrence.

Requests for service at remote offices will be accepted where the necessary space and technical capabilities exist.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.12 Shared Network Arrangement

Each customer entering into a Shared Network Arrangement is solely responsible to Verizon for charges associated with that customer's portion of the shared network. Disconnection of service by the host subscriber does not relieve another user of the network of any obligation to pay access charges associated with the portion of the shared network to which that user subscribes. Billing for services and facilities will continue until a disconnect request from the service user has been received by Verizon. The host subscriber is solely responsible for notifying the connecting service user in the event of disconnection of the host service which affects that portion of the shared network service to which the user has subscribed.

For administrative purposes, one "Arrangement" under the Shared Network Arrangement offering shall be limited to the agreement between one Host Subscriber and one Service User permitting the Service User to connect a specified number of subtending circuits to one specified multiplexer on the Host's service. Agreements between one Host Subscriber and two (or three, etc.) Service Users shall be deemed to comprise two (or three, etc. respectively) separate "Arrangements". However, an agreement to expand the scope of an existing Arrangement by subsequently increasing the number of subtending facilities on the same multiplexed shall not constitute a new or separate "Arrangement".

A Shared Network Arrangement shall be established between a Host Subscriber and a Service User upon the completion of the service order for the first arrangement. No Shared Network Arrangement shall be deemed to be in effect until at least one subtending facility has been installed for the Service User. A Shared Network Arrangement shall be deemed cancelled when the last subtending facility has been disconnected.

A Processing charge will apply for handling each service order in a Shared Network Arrangement. The Processing Charge applies in addition to all other applicable rates and charges.

6.7.13 Facility Hubs

A customer has the option of ordering high capacity facilities (i.e., DS1 or DS3) to a facility Hub for distributing or channelizing to individual services requiring lower capacity facilities (e.g., Voice Grade or DS1).

When high capacity facilities are provided between a customer premises and a facility Hub, the facility will not be considered an end-to-end service until an associated channelized service is installed. The facility Hub will not be considered as a customer premises.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.13 Facility Hubs (Cont'd)

Different locations may be designated by the Telephone Company as Hubs for different facility capacities, e.g., multiplexing from DS3 to DS1 may occur at one location while multiplexing from DS1 to Voice Grade may occur at a different location. When ordering, the customer will specify the desired multiplexing Hub(s) selected from the National Exchange Carrier Association Tariff F.C.C. No. 4. This Tariff identifies the type(s) of multiplexing functions available and the serving wire centers at which they are available.

The types of multiplexing arrangements available include the following:

- from higher to lower bandwidth
- from high-capacity to voice grade channels

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

The Telephone Company will commence billing the monthly rate for the facility to the Hub on the date specified by the customer on the service order. Additional individual services utilizing these facilities may be installed coincident with the installation of the facility to the Hub, or may be ordered and/or installed at a later date, at the option of the customer. The customer who orders the High-Capacity Service must order all associated individual Access Channelized Services. The customer will be billed for a high-capacity Entrance Facility, Direct-trunked Transport, Channel Mileage (when applicable), and the multiplexing arrangements at the time the facility is installed. Additional individual service rates (by service type) will apply for an Entrance Facility for additional Direct-trunked Transport (as required) for each subsequent channelized service. These will be billed to the customer as each individual service is installed.

In addition, Hubbing may be provided at an end office if all the circuits to be multiplexed are on an individual Direct-trunked facility and equipment is available.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.14 Tandem Access Sectorization (TAS)

A. General

Tandem Access Sectorization is a service designed to meet the traffic routing requirements of customers whose traffic is routed through an access tandem. TAS is only available in connection with Feature Group B and Feature Group D services from the tandems as specified in D. following. TAS is available to all customers. For customers with multiple POTS, TAS is a method of directing Feature Group D traffic via an access tandem to a specific POT designated by the customer. Feature Group B customers with TAS will be able to identify the geographical area from which calls originate. TAS permits customers with multiple POTS within a LATA to balance the call volume within respective networks. TAS may not be used in conjunction with the Optional Feature Alternate Traffic Routing specified in Section 6.3.1.

B. Tandem Access Sectorization Area (TASA)

The tandem serving area will be subdivided into geographical areas called Tandem Access Sectorization Areas which will be defined by the Telephone Company. Each TASA must be treated as a unit and cannot be subdivided. The TASAs are standard for all customers who purchase TAS. A customer with multiple POTS within the LATA can designate to which POT all of the traffic from a specific TASA will be routed. The customer may also designate to which Trunk Group to a particular POT all of the traffic from a TASA will be routed. All of the tandem routed traffic from a TASA can only be delivered to one POT. TASAs are as listed following:

1. Norfolk LATA

Norfolk
Newport News
Onancock

2. Washington LATA

Northern Virginia

C. End Offices

Calls originating from end offices within the TASA that are not routed over direct trunks to a customer POT can be routed via an access tandem over Feature Group B or D originating trunk groups. If a customer had a direct trunk group to the end office, both direct- and tandem-routed traffic from that end office could be sent to the same POT or to a different POT as designated by the customer.

SWITCHED ACCESS SERVICE

6.7 Rate Regulations (Cont'd)

6.7.14 Tandem Access Sectorization (TAS) (Cont'd)

D. Access Tandems

Through the use of incoming trunk class screening in the access tandem, calls originating from a TASA can be identified with that TASA. In the case of a customer with one POT, all tandem-routed traffic from a TASA can be directed to a specific outgoing trunk group from the tandem to the POT as designated by the customer. A customer with multiple POTS can direct all originating calls from a TASA to a single POT. In addition, all originating traffic from a different TASA could be routed to the same POT or a different POT as designated by the customer. The access tandems for use with TAS are the Norfolk and Washington tandems.

SWITCHED ACCESS SERVICE

6.8 Rates and Charges

6.8.1 Switched Transport

(A) Entrance Facilities

	Nonrecurring Charge		Per Month
(1) Voice Grade - per point of termination	First	Additional	
Two-wire	-	-	$ 25.00
Four-wire	-	-	28.00
- per point of termination			
Two-wire			
Installation/Change	$750.00	$240.00	-
Rearrangement	25.00	25.00	-
Four-wire			
Installation/Change	855.00	300.00	-
Rearrangement	25.00	25.00	-
(2) DSI			
- per point of termination	-	-	270.00
Installation/Change	895.00	280.00	-
Rearrangement	125.00	125.00	-
(3) DS3			
- per point of termination			
(a) Electrical Interface	1800.00	1800.00	3130.00
(b) Optical Interface	1800.00	1800.00	2980.00

(B)

Tandem Switched MOU	Per Month	Per Minute of Use
Tandem Switching		$ .000900
Transport Multiplexing -per MOU		$ .000100
Dedicated Tandem Trunk Ports -per Trunk, per Month	$10.41	

	Fixed	Per Mile
Tandem Transport	$ .000150	$ .000030
Host/Remote Transport	.000150	.000030

SWITCHED ACCESS SERVICE

6.8 Rates and Charges

6.8.1 Switched Transport (Cont'd)

	Per Month	
(C) Direct-trunked Transport	Fixed	Per Mile
(1) Voice Grade	$ 15.00	$ 3.00
(2) DS1	75.00	30.00
(3) DS3		
- Optical	900.00	180.00
- Electrical	900.00	180.00

(D) Multiplexing		
- Entrance Facility, per arrangement	Nonrecurring Charge	Per Month
DS1 to Voice Grade	$430.00	$180.00
DS3 to DS1	430.00	500.00
- Direct-trunked Transport, per arrangement		
DS1 to Voice Grade	430.00	180.00
DS3 to DS1	430.00	500.00

(E) Shared Network Arrangement	
- Processing Charge per Service Order	40.00
(F) Switched Access Connection Charge	
- per Line or Trunk	25.00
(G) Service Order Charge	
- per Service Order	130.00
(H) Per Remote Trunk Group	
- per occurrence	295.00

SWITCHED ACCESS SERVICE

6.8 Rates and Charges

6.8.1 Switched Transport (Cont'd)

(I) Nonchargeable Optional Features

(1) Supervisory Signaling		FID
- DX Supervisory Signaling arrangement, per Transmission Path†	NCI	++DX+
- SF Supervisory Signaling arrangement, per Transmission Path#	NCI	++SF+
- E&M Type I Supervisory Signaling arrangement, per Transmission Path†	NCI	++EA+
- E&M Type II Supervisory Signaling arrangement, per Transmission Path†	NCI	++EB+

† Available with Interface Groups 1 and 2.
# Available with Interface Groups 2 and 6 through 10.

SWITCHED ACCESS SERVICE

6.8 Rates and Charges (Cont'd)

6.8.1 Switched Transport (Cont'd)

(J) Nonchargeable Optional Features (Cont'd)

		FID	
(1)	Supervisory Signaling (Cont'd)		
	E&M Type III Supervisory Signaling, per Transmission Path*	NCI	++EC+
	Tandem Supervisory Signaling, per Transmission Path†	NCI	++EX+
(2)	Customer specification of the receive transmission level at the first point of switching within a range acceptable to the Telephone Company, per Transmission Path#	TLV	
(3)	Customer specification of Switched Transport Termination Four-wire termination in lieu of two-wire termination, per Transmission Path**	NC	S+T+

(K) Toll Free Data Base Access Service

Toll Free Data Base Access Service (available with Feature Group D equipped with out-of-band signaling)	
Basic Query Charge, per Query	$.003089
Toll Free Data Base Vertical Feature Package (VFP) (available with Toll Free Data Base Basic Access Service)	
VFP Charge, per Query	$.000327

(L) Common Channel Signaling Access Service

	Per Month
(1) STP access mileage, per mile	$5.72
(2) Termination, per port	$900.00

(M) Alternate Serving Wire Center per point of termination

(1) DS1	25.00
(2) DS3 (optical or electrical)	250.00

* Available with Interface Groups 1 and 2 for FGD.

† Available with Interface Group 2 for FGA.

Available with Interface Groups 2 through 10 for FGA and FGB. The range of transmission levels which may be specified is described in Technical Reference PUB 62500.

** Available with Feature Group B with type B Transmission Performance.

SWITCHED ACCESS SERVICE

6.8 Rates and Charges (Cont'd)

6.8.2 End Office

	Per Month	Rates Per Access Minute	
(A) Local Switching			
Features Groups - A, B and D			
Originating		$ .010000	
Terminating		.010000	
Dedicated Trunk Ports -per Trunk	$10.41		
Shared End Office Trunk		.001618	
(3) Common Switching Optional Features			FID
Call Denial on Line or Hunt Group (available with FGA) per Transmission Path or Transmission Path Group			CAD
Service Code Denial on Line or Hunt Group (available with FGA) per Transmission Path or Transmission Path Group			SCD
Hunt Group Arrangement (available with FGA) per Transmission Path Group			HML/HTG
Uniform Call Distribution Arrangement (available with FGA) per Transmission Path Group			HTY UD
Nonhunting Number for use with Hunt Group Arrangement or Uniform Call Distribution Arrangement (available with FGA) per Transmission Path			NHN
Automatic Number Identification (available with FGB and FGD) per Transmission Path Group			ANI

SWITCHED ACCESS SERVICE

6.8 Rates and Charges (Cont'd)

6.8.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(3) Common Switching Optional Features (Cont'd)	FID	
Up to 7-digit Outpulsing of Access Digits to Customer (available with FGB) per Transmission Path Group	USDO	
Calling Party Number FGD equipped with out-of-band signaling per End Office, per Trunk Group	CF3CP	
Charge Number (available with FDG equipped with out-of-band signaling) per End Office, per Trunk Group	CF3CN	
Carrier Selection Parameter (available with FGD equipped with out-of-band signaling) per End Office, per Trunk Group	CF3CS	
Access Transport Parameter (available with FGD equipped with out-of-band signaling) per End Office, per Trunk Group		
Service Class Routing (available with FGD) per Transmission Path Group	SCRT	
Alternate Traffic Routing (available with FGD) per Transmission Path Group	ARTG	
Trunk Access Limitation Arrangement (available with FGD) per End Office	CHOK	
Call Gapping Arrangement (available with FGD) per End Office	CGAP	
International Carrier Option (available with FGD) per End Office and Access Tandem	INCO	
Band Advance Arrangement for use with WATS Access Lines [1] (available with FGD) per Arrangement	BAAD	(C)
End Office End User Line Service Screening for use with WATS Access Lines [1] (available with FGD) per Transmission Path	BAND	(C)

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.8 Rates and Charges (Cont'd)

6.8.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(3) Common Switching Optional Features (Cont'd)

	Rates Per Access Minute	
Hunt Group Arrangement for use with WATS Access Lines [1] (available with FGD) per Transmission Path Group	HML/HTG	(C)
Uniform Call Distribution Arrangement for use with WATS Access Lines [1] (available with FGD) per Transmission Path Group	HTY UD	(C)
Nonhunting Number for use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for use with WATS Access Lines [1] (available with FGD) per Transmission Path	NHN	(C)

(4) Transport Termination Nonchargeable Options

	FID
(a) Line Side Terminations (For FGA)	
Two-way Operation	
Dial Pulse with Loop Start	NC +++A
Dial Pulse with Ground Start	NC +++E
DTMF with Loop Start	NC +++F
DTMF with Ground Start	NC +++G
Terminating Operation	
Dial Pulse with Loop Start	NC +++N
Dial Pulse with Ground Start	NC +++P
DTMF with Loop Start	NC +++R
DTMF with Ground Start	NC +++S
Originating Operation	
Loop Start	NC +++U
Ground Start	NC +++V

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.8 Rates and Charges (Cont'd)

6.8.2 End Office (Cont'd)

(A) Local Switching Optional Features (Cont'd)

(3) Common Switching Optional Features (Cont'd)

	Rates Per Access Minute
(b) Trunk Side Terminations (For FGB and FGD)	
Standard Trunk for Originating, Terminating or Two-way Operation.....	TTC SO
(available with FGB.....	TTC ST
and FGD).....	TTC TY
Rotary Dial Station Signaling Trunk (available with FGB).....	TTC RD
Operator Trunk, Full Feature Arrangement (available with FGD).....	TTC FF

(B) Line Terminations

WATS Access Line Terminations Nonchargeable Options [1] (C)

(1) Line Side Terminations:

Originating-only Loop Start, Line Side Connection, with DTMF Address Signaling per Transmission Path	NC +++R
Originating-only Loop Start, Line Side Connection, with Dial Pulse Address Signaling per Transmission Path	NC +++N
Originating-only Ground Start, Line Side Connection, with DTMF Address Signaling per Transmission Path	NC +++S
Originating-only Ground Start, Line Side Connection, with Dial Pulse Address Signaling per Transmission Path	NC +++P
Terminating-only Loop Start, Line Side Connection per Transmission Path	NC +++U
Terminating-only Ground Start, Line Side Connection per Transmission Path	NC +++V

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SWITCHED ACCESS SERVICE

6.8 Rates and Charges (Cont'd)

6.8.2 End Office (Cont'd)

(B) Line Termination (Cont'd)

(2) Trunk Side Terminations:

Terminating-only Trunk Side Connection for Forwarding of Dialed Number Identification to End User
per Transmission Path .....

6.8.3 WATS Access Line Optional Feature [1] - Grandfathered (C)

(A) Two-wire/Four-wire WATS Access Line

Two-wire Line
Four wire Line

(B) Improved Two-wire Voice Transmission Specifications for Two-wire WATS Access Line

6.8.4 Message Unit Credit, per originating access minute.....

6.8.5 Tandem Access Sectorization

	Per Month
(A) Per trunk	$1.00

	Nonrecurring Charge
(B) Initial, per customer per tandem	$5810.30
Subsequent, per point of termination	723.91

6.8.6 Operator Transfer Service, per call transferred..... $.22

[1] WATS service offering is grandfathered as of November 14, 2022 and limited to existing subscribers at their existing locations. (N) (N)

SPECIAL ACCESS SERVICE

7.1 General

Special Access Service provides a transmission path to connect customer-designated locations*, either directly or through a Telephone Company hub where bridging or multiplexing functions are performed. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

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

Following is a brief description of each type of channel:

Metallic - a channel for the transmission of low speed varying signals at rates up to 30 baud.

Telegraph Grade - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz.

* Telephone Company premises Centrex switches are considered to be customer locations for purposes of this tariff.

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Following is a brief description of each type of channel: (Cont'd)

Program Audio - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 50 to 15000 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz, or from 50 to 8000 Hz.

Wideband Analog - a channel for the transmission of wideband signals. The bandwidths are from 60 to 108 kHz (Group), from 312 to 552 kHz (Supergroup), from 564 to 3084 kHz (Mastergroup), from 300 Hz to 18 kHz, from 29 to 44 kHz or from 28 to 44 kHz.

Wideband Data - an analog channel for the transmission of synchronous serial data at rates of 19.2, 50.0 or 230.4 kbps, or asynchronous serial data at rates up to 19.2, 50.0 or 230.4 kbps.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

Detailed descriptions of each of the channel types are provided in 7.2 following.

The customer also has the option of ordering Voice Grade and analog and digital high capacity facilities (i.e., Group, Supergroup, Mastergroup, 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to a Telephone Company Hub for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.2 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also set forth in 7.2 following.

For example, a customer may order a 3.152 Mbps facility from a customer-designated premises to a Telephone Company hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Following is a brief description of each type of channel: (Cont'd)

multiplexed at the same or a different hub to Voice Grade or Wideband Analog (i.e., Group Level) Channels or may be extended to other customer-designated locations. Optional features may be added to either the 1.544 Mbps or the Voice Grade Channels.

7.1.2 Rate Categories

There are three basic rate categories which apply to Special Access Service:

Channel Terminations (described in 7.1.2(A) following)
Channel Mileage (described in 7.1.2(C) following)
Optional Features and Functions (described in 7.1.2(E) following)

(A) Channel Termination

The Channel Termination rate category provides for the communications path between a customer-designated premises/property and the serving wire center of that location/property. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in (E) following. One Channel Termination charge applies per customer-designated premises at which the channel is terminated. This charge will apply even if the customer-designated premises and the serving wire center are colocated in a Telephone Company building.

(B)

(C) Channel Mileage

Channel Mileage rate category provides for 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 or between two Telephone Company hubs. Channel mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

(D)

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.2 Rate Categories (Cont'd)

(E) Optional Features and Functions

The Optional Features and Functions rate category provides for Optional Features and Functions which may be added to a Special Access Service to improve its quality or utility 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. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

Signaling Capability
Hubbing Functions
Conditioning
Transfer Arrangements

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 locations in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

Descriptions for each of the available Optional Features and Functions are set forth in 7.2 following.

7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(A) Two-point Service

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

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

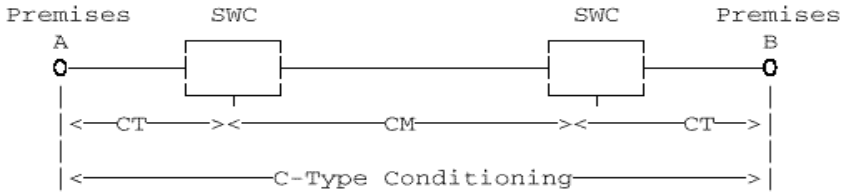
(A) Two-point Service (Cont'd)

Applicable rate elements are:

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

In addition, a Special Access Surcharge as set forth in 7.4.2 following, may be applicable.

The following diagram depicts a two-point Voice Grade service connecting two customer-designated locations located 15 miles apart. The service is provided with C-Type Conditioning.



Applicable rate elements are:

Channel Terminations (2 applicable)
Channel Mileage (mileage band over 8 to 25 miles)
C-Type Conditioning Optional Feature

(B) Multipoint Service

Multipoint service connects three or more customer-designated locations through a Telephone Company hub. There is no limitation on the number of midlinks available with multipoint service. However, when more than three midlinks are provided in tandem, the quality of the service may be degraded. A midlink is a channel between hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the Service Descriptions set forth in 7.2. following.

Multipoint service utilizing a customized technical specifications package as set forth in 7.2 following 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.

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

When ordering, the customer will specify the desired bridging hub(s) selected from the Telephone Company list* of available hub locations. The hub list will specify the type of bridging available at a given location and the wire centers served from that hub.

Applicable Rate Elements are:

Channel Terminations (one per customer-designated location),

Channel Mileage (as applicable between each customer-designated location and the hub and between hubs),

Bridging, and

Optional Features (when applicable)

In addition, the Special Access Surcharge as set forth in 7.4.2 following, may be applicable.

Example: Voice Grade multipoint service connecting four customer locations via two customer-specified bridging hubs.

Applicable rate elements are:

Channel Terminations (4 applicable)
Channel Mileage (5 sections, each from appropriate mileage band)
Bridging (6 applicable, i.e., each bridge port)

7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an Individual Case Basis.

* Same as the list specified for the State of Virginia in the National Exchange Carrier Association Tariff, F.C.C No. 4.

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.4 Alternate Use (Cont'd)

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an Individual Case Basis and filed in Section 12., Specialized Service or Arrangements. The customer will pay the stated tariff rates for the access service rate elements ordered (i.e., Channel Terminations, Channel Mileage [as applicable] and Optional Features [if any]).

7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-only) are set forth in Section 11. following.

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the makeup of the facilities and services provided under this tariff as Special Access 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 these facilities are materially changed.

7.1.7 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 tests will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise and C-Message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.

(B) For other analog services (i.e., Metallic, Telegraph, Program Audio, Wideband Analog and Wideband Data) and for digital services (i.e., Digital Data and High Capacity) acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.7 Acceptance Testing

In addition to the aforementioned tests, Additional Cooperative Acceptance Testing for Voice Grade Service to test other parameters, as described in 13.3.4(B) following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

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

7.1.9 Volume Term Pricing Plans (VIPP)

Volume Term Pricing Plans are pricing options available to DDS and DS1 customers. A customer, by state, meeting one or more of the requirements described in section 7.2.8 and 7.2.9, can subscribe to specific plans in exchange for reduced monthly rates.

(A) Terms and Conditions

1. When requesting a Volume Term Pricing Plan, the customer must specify the number of channel terminations by state, billing account numbers(s), length of the desired commitment period and the circuit identification number(s) of the circuits which are to be included in the plan.

2. When ordering VTPP services, related rate elements must be ordered under the same plan. For example, both channel terminations and channel mileage for a given circuit must be in the same plan and have the same service date.

3. At the end of a VTPP commitment period, the associated service(s) will revert to monthly service rates unless the customer subscribes to a new VTPP.

4. Each Volume Term Pricing Plan will require a separate contract and is considered independent of all other pricing plans.

(B) Termination Liability

1. A termination liability payment is applicable when the customer fails to comply with the conditions required for VTPP, except as set forth in (C) following.

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.9 Volume Term Pricing Plans (VTPP) (Cont'd)

(B) Termination Liability (Cont'd)

2. The termination liability payment applies when a customer removes channel terminations from a pricing plan prior to the end of the selected commitment period without adding additional channel terminations to meet the originally agreed upon number of channel terminations and/or that plan's volume requirements.

3. If the customer requests all channel terminations of a DS1 service to be used for Switched Access, the request will be treated as a disconnect and termination liability will be assessed.

4. The termination liability payment applies to each individual recurring rate element associated with a VTPP which is disconnected prior to the expiration of the commitment period of the VTPP.

5. Termination liability will be computed as follows:

a. For services discontinued within the first year, the customer will be liable for 100% of the total monthly charges for the unexpired portion of the initial 12 months, and 15% of the total monthly charges for DS1 channel terminations and 30% of the total monthly charges for all other rate elements for the remainder of the VTPP commitment period.

b. For services discontinued after the first 12 months of a plan, customers will be liable for 15% of the total monthly charges for DS1 channel terminations and 30% of the total monthly charges for all other DS1 and DDS rate elements for the remaining portion of their VTPP commitment period.

(C) Termination Without Liability

1. A VTPP may be canceled without liability should the applicable tariff rates increase.

2. A request to change to a longer commitment period will nullify the current termination liability. All terms and conditions associated with the new VTPP will apply.

3. Termination liability is not applicable if the orders for the disconnect of the existing VTPP channel terminations and associated rate elements and the new connect channel terminations and associated rate elements meet all of the following conditions:

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.9 Volume Term Pricing Plans (VTPP) (Cont'd)

(C) Termination Without Liability (Cont'd)

3. (Cont'd)

a. All disconnect and connect orders are related by a related purchase order number (RPON) and received by the Telephone Company at the same time.

b. The new channel terminations are within the same state as the channel terminations being disconnected.

c. The new channel terminations meet or exceed the minimum criteria for the existing plan.

4. Termination liability is not applicable if the customer requests to upgrade service to a higher capacity (e.g., DDS to DS1) or a higher speed (2.4 kbps to 4.8 kbps) service and meets all of the following conditions:

a. The new service is provided within the same state as the disconnected service.

b. The new service is purchased under a long-term agreement equal to or greater than the commitment period of the service being disconnected.

c. The orders for the disconnect of the existing VTPP rate elements and the new connect are received by the Telephone Company at the same time, with the same due date, and are related together by a Related Purchase Order Number (RPON).

d. The total bandwidth (in kbps) of the service is greater than or equal to the bandwidth of the discontinued service(s).

(D) Additions To Plans

Customers with an existing VTPP who wish to increase the number of their DDS or DS1 services have the following options:

1. Subscribe to the additional services under the monthly payment plan.
2. Subscribe to the additional services under a separate VTPP.
3. Upgrade existing plan of equal or greater length.

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.9 Volume Term Pricing Plans (VTPP) (Cont'd)

(D) Additions To Plans (Cont'd)

Customers with an existing VTPP may add optional features/functions to new or existing channels at any time.

7.2 Service Descriptions

For the purposes of ordering, there are nine categories of Special Access Service. These are:

Metallic (MT)
Telegraph Grade (TG)
Voice Grade (VG)
Program Audio (AP)
Wideband Analog (WA)
Wideband Data (WD)
Digital Data (DA)
High Capacity (HC)

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. Each of the components of the service are described in this section.

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 location or between a customer-designated location and a Telephone Company hub where bridging or multiplexing functions are performed.

Information pertaining to the technical specifications packages 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

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

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 Special Access Service to which the parameters are applicable. These two-letter codes are shown preceding in parentheses following the category of Special Access Service. The letter "C" following the two-letter code indicates the technical specifications package for a customized service. A numeric or alphanumeric 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.

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. However, communications can only be provided between points of terminations with compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in 7.3.5 following in a combination format.

Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth at the end of this 7.2. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

The Optional Features and Functions available with each type of Special Access Service are described in this section. The Optional Features and Functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the top.

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this tariff. All services installed after the effective date of this tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service:

Metallic	PUB	62502	
Telegraph Grade	PUB	62502	
Voice Grade	PUB	62501	and associated Addendum
	PUB	41004,	Table 4
Program Audio	PUB	62503	and associated Addendum
Wideband Analog	PUB	62505	and associated Addendum

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

Wideband Data	PUB	62506	
Digital Data	PUB	62507	and associated Addendum
	PUB	62310	
High Capacity	PUB	62508	
	PUB	62411	

7.2.1 Metallic Service

(A) Basic Channel Description

A metallic channel is an unconditioned two-wire channel 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-designated location or between a customer-designated location 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.

(B) Technical Specifications Packages

Parameter	C	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.

(C) Channel Interfaces

Compatible channel interfaces are set forth in 7.3.5(A) following.

(D) Optional Features and Functions

Central Office Bridging Capability

(a) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer-designated location.

(b) Series Bridging of up to 26 customer-designated locations.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.1 Metallic Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package MT -			
	C	1	2	3
Three Premises Bridging	X	X		X
Series Bridging	X		X	

7.2.2 Telegraph Grade Service

(A) Basic Channel Description

A Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between customer-designated location or between a customer-designated location and a Telephone Company hub.

(B) Technical Specifications Packages

	Package TG-		
Parameter	C	1	2
Telegraph Distortion	X	X	X

The technical specifications are delineated in Technical Reference PUB 62502.

(C) Channel Interfaces

Compatible channel interfaces are set forth in 7.3.5(B) following.

(D) Optional Features and Functions

Telegraph Bridging (two-wire and four-wire)

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.2 Telegraph Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package TG-		
	C	1	2
Telegraph Bridging	X	X	X

7.2.3 Voice Grade Service

(A) Basic Channel Description
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 location or between a customer-designated location and a Telephone Company hub.

(B) Technical Specifications Packages

	Package VG-											
Parameter	C*	1	2	3	4	5	6	7	8	9	10	11	12
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 desired parameters are selected by the customer from the list of available parameters.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(B) Technical Specifications Packages (Cont'd)

The technical specifications 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.

(C) 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 7.3.5(C) following.

(D) Optional Features and Functions

(1) Central Office Bridging Capability

(a) Voice Bridging (two-wire and four-wire)

(b) Data Bridging (two-wire and four-wire)

(c) Telephoto Bridging (two-wire and four-wire)

(d) Select-A-Station Service Bridging with sequential arrangement ports or addressable arrangement ports

(e) Telemetry and Alarm Bridging

Split Band, Active Bridging
Passive Bridging
Summation, Active Bridging

(2) Central Office Multiplexing

Voice to Telegraph Grade: An arrangement that converts a Voice Grade channel to Telegraph Grade channels using frequency division multiplexing.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade Services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each midlink or end link. C-Type and data capability conditioning may be combined on the same service.

(a) 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:

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

Frequency Range (Hz)	Variation (dB)
400-2800	-1.0 to +2.0
300-3000	-1.0 to +3.0
3000-3200	-2.0 to +6.0

(b)

Envelope Delay Distortion

Frequency Range (Hz)	Variation (micro-seconds)
1000-2600	100
800-2600	200
600-2600	300
500-2800	600
500-3000	3000

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Conditioning (Cont'd)

(c) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

(4) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. This level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference PUB 62501.

(5) Improved Return Loss

(a) On Effective Four-wire Transmission at Four-wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600-ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's location where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference PUB 62501.

(b) On Effective Two-wire Transmission at Two-wire Point of Termination: Provides for more stringent Echo Control Specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's location with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference PUB 62501.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(6) Data Capability

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameters for Data Capability are:

Signal to C-Notched Noise Ratio is equal to or greater than 32dB.

Intermodulation distortion:

Signal to second order modulation products (R2) is equal to or greater than 38dB

Signal to third order modulation products (R3) is equal to or greater than 42dB

(7) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are:

Attenuation Distortion
(1004 Hz Reference)

Frequency Range (Hz)	Variation (dB)
500-3000	-0.5 to +1.5
300-3200	-1.0 to +2.5

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(7) Telephoto Capability (Cont'd)

Envelope Delay Distortion

Frequency Range (Hz)	Variation (mcs)
1000-2600	110
800-2800	180

(8) Signaling Capability

Signaling Capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

(9) Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

(10) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to another channel that terminates in either the same or a different customer location. A key-activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option.

The following table shows the technical specifications packages with which the optional features and functions are available.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

	Available with Technical Specifications Package VG-												
	C	1	2	3	4	5	6	7	8	9	10	11	12
C-Type Conditioning	X					X	X	X	X	X	X		
Central Office Bridging Capability	X		X			X	X				X	X	X
Central Office Multiplexing	X						X						
Customer-specified Premises Receive Level	X		X	X				X	X	X			
Data Capability	X						X	X			X		
Improved Return Loss For Effective Four-wire Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X
For Effective Two-wire Transmission	X		X	X				X					
Sealing Current Conditioning	X							X					
Selective Signaling Arrangement	X		X		X	X					X	X	X
Signaling Capability	X	X	X	X				X	X	X			
Telephoto Capability	X											X	
Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X

7.2.4 Program Audio Service

(A) Basic Channel Description

A Program Audio channel is a channel measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer-designated locations or between a customer-designated location and a Telephone Company hub.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.4 Program Audio Service (Cont'd)

(B) Technical Specifications Packages

	Package AP-				
Parameter	C*	1	2	3	4
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phase Tracking	X				
Short-term Gain Stability	X				
Short-term Loss	X				
Total Distortion	X	X	X	X	X

The technical specifications are delineated in Technical Reference PUB 62503 and associated Addendum.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Program Audio channel:

CI	Bandwidth
PG-1	Nominal frequency from 50 to 15000 Hz
PG-3	Nominal frequency from 200 to 3500 Hz
PG-5	Nominal frequency from 100 to 5000 Hz
PG-8	Nominal frequency from 50 to 8000 Hz

(D) Optional Features and Functions

(1) Central Office Bridging Capability

Distribution Amplifier

(2) Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0 dB $\pm$ 0.5 dB.

* The desired parameters are selected by the customer from the list of available parameters.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.4 Program Audio Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (Additional AP channel must be ordered separately.)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package AP-				
	C	1	2	3	4
Central Office Bridging Capability	X	X	X	X	X
Gain Conditioning	X	X	X	X	X
Stereo	X				X

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.5 Wideband Analog Service

(A) Basic Channel Description

A Wideband Analog channel is a channel with a bandwidth measured in kHz for the transmission of a wideband signal. The actual bandwidth is a function of the channel interface selected by the customer. Wideband Analog channels are provided between customer-designated locations or between a customer-designated location and a Telephone Company hub.

(B) Technical Specifications Packages

	Package WA-				
Parameter	1	2	2A	3	4
Amplitude Stability	X	X			
Background Noise	X	X	X	X	X
Frequency Shift	X	X	X		
Gain/Frequency Characteristics of:					
Group Connections	X			X	X
Supergroup Connections		X			
Mastergroup Connections			X		
Impulse Noise	X	X	X		

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.5 Wideband Analog Service (Cont'd)

(B) Technical Specifications Packages (Cont'd)

	Package WA-				
Parameter	1	2	2A	3	4
Net Loss Variations	X	X	X	X	X
Pilot Slot	X	X	X		
Spurious Single Frequency Tone	X	X	X		

The technical specifications are delineated in Technical Reference PUB 62505 and associated Addendum.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Wideband Analog channel:

CI	Bandwidth
AH-B	60 kHz to 108 kHz (Group)
AH-C	312 kHz to 552 kHz (Supergroup)
AH-D	564 kHz to 3084 kHz (Mastergroup)
WD-1	300 Hz to 18 kHz
WD-2	28 kHz to 44 kHz
WD-3	29 kHz to 44 kHz

Compatible channel interfaces are set forth in 7.3.5(F) following.

(D) Optional Features and Functions

Central Office Multiplexing

(a) Mastergroup to Supergroup

An arrangement that converts a Mastergroup channel to ten Supergroup channels using frequency division multiplexing.

(b) Supergroup to Group

An arrangement that converts a Supergroup channel to five Group channels using frequency division multiplexing.

(c) Group to Voice

An arrangement that converts a Group channel to twelve Voice Grade channels using frequency division multiplexing.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.5 Wideband Analog Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(d) Group to DS1

An arrangement that converts two Group channels to a DS1 channel using analog to digital conversion.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package WA-				
	1	2	2A	3	4
Central Office Multiplexing:					
Mastergroup to Supergroup			X		
Supergroup to Group		X			
Group to Voice	X				
Group to DS1*					

7.2.6 Wideband Data Service

(A) Basic Channel Description

A Wideband Data channel is an analog channel for the transmission of synchronous serial data at the rate of 19.2, 50.0, or 230.4 kbps or of asynchronous serial data at rates of up to 19.2, 50.0, or 230.4 kbps. Optional arrangements are available for transmission of synchronous serial data at 18.75 or 40.8 kbps. The actual bit rate is a function of the channel interface selected by the customer. This service requires a 303 data station. The 303 data station provides coupling between the customer's business machine and the wideband data transmission medium. A voiceband coordinating channel is also provided. Wideband Data channels are provided between customer-designated locations.

(B) Technical Specifications Package

	Package WD-		
	1	2	3
Error-free Seconds	X	X	X

* Requires two channels with technical specifications package WA1 to form a WA1T service.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.6 Wideband Data Service (Cont'd)

(B) Technical Specifications Package (Cont'd)

While in service, the monthly average of error-free seconds will be equal to or greater than 98.75%.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Wideband Data channel:

CI	Bit Rate
WB-18S	18.75 kbps, synchronous
WB-19A	up to 19.2 kbps, asynchronous
WB-19S	19.2 kbps, synchronous
WB-23A	up to 230.4 kbps, asynchronous
WB-23S	230.4 kbps, synchronous
WB-40S	40.8 kbps, synchronous
WB-50A	up to 50.0 kbps, asynchronous
WB-50S	50.0 kbps, synchronous

Compatible channel interfaces are set forth in 7.3.5(G) following.

(D) Optional Features and Functions

Key-activated Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer location. A key-activated control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option. The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package WD-		
	1	2	3
Key-activated Transfer Arrangement	X	X	X

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.7 Digital Data Service

(A) Basic Channel Description

A Digital Data channel is a channel for duplex 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 channel 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 channels are only available via Telephone Company designated hubs and are provided between customer-designated premises or between a customer-designated premises and a Telephone Company hub.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

(B) Technical Specifications Packages

	Package DA-			
Parameter	1	2	3	4
Error-Free Seconds	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 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.

(C) Channel Interfaces

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

CI	Bit Rate
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-56	56.0 kbps
DU-96	9.6 kbps

Compatible channel interfaces are set forth in 7.3.5(H) following.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.7 Digital Data Service

(D) Optional Features and Functions

(1) Central Office Bridging Capability

(2) Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer's location. This arrangement is only available at a Telephone Company designated hub. A key-activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package DA-			
	1	2	3	4
Central Office Bridging Capability	X	X	X	X
Transfer Arrangement	X	X	X	X

(E) Volume Term Pricing Plans

(1) DDS customers have the option of subscribing to 2, 3 or 5 year commitment periods, and to various pricing plans as indicated following:

a. VTPP Plan 1 - 1 to 24 channel terminations.

b. VTPP Plan 2 - 25 to 100 channel terminations.

c. VTPP Plan 3 - more than 100 channel terminations.

(2) DDS plans are applicable to channel terminations, and channel mileage fixed and per mile rate elements, as specified in 7.5 following.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity Service

(A) Basic Channel Description

A Digital Data channel is a channel for duplex 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 channel 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 channels are only available via Telephone Company designated hubs and are provided between customer-designated locations or between a customer-designated location and a Telephone Company hub.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer location. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

(B) Technical Specifications Packages

	Package DA-			
Parameter	1	2	3	4
Error-Free Seconds	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 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.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity Service (Cont'd)

(C) Channel Interfaces

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

CI	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 7.3.5 following.

(D) Optional Features and Functions

(1) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer-designated location and the wire center serving that location. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer location. The customer is responsible for providing the equipment at its location. Equipment at the customer location will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

(2) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A key-activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option.

* A 64.0 kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Telephone Company hub.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Central Office Multiplexing

(a) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

(b) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(c) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

(d) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

(e) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the hub can also be used for a Digital Data Service.

(f) DS1 to DS0

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

(g) DSO to Subrate

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

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Central Office Multiplexing (Cont'd)

(g) (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package HC-					
	0	1	1C	2	3	4
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 DS0		X				
DS0 to Subrate*	X					
Transfer Arrangement		X				

(4) Clear Channel Capability (CCC)

(a) CCC is an arrangement that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity channel or a 1.544 Mbps High Capacity channel subtending from a multiplexed 44.736 Mbps High Capacity channel with no constraint on the quantity or sequence of ones (mark) and zero (space) bits. This arrangement requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code as described in Technical Reference TR-NPL-000054 and Technical Reference PUB 62508.

(b) CCC is provided on 1.544 Mbps High Capacity channels between two customer designated premises and on multiplexed 44.736 High Capacity channels or multiplexed 1.544 High Capacity channels† between a telephone company Hub office and a customer designated premises, and is subject to the availability of facilities.

(c) The optional feature may be ordered at the same time the High Capacity service is ordered or it may be ordered as an addition to an existing High Capacity service. Customers must agree to out-of-service periods required to add this feature to an existing High Capacity service.

* Available only on a channel of a 1.544 Mbps facility to a Telephone Company hub.

† Available only in a DS1-to-Digital Multiplexed Configuration.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(5) Extended Superframe Format

Extended Superframe Format is an optional feature that passes a customer provided framing format for 1.544 Mbps High Capacity service. Extended Superframe Format extends the customer's 1.544 Mbps framing structure from 12 to 24 frames and divides the 8 Kbps 193rd bit position pattern into three distance functionalities: 2 Kbps for% frame synchronization, 2 Kbps for cyclic redundancy checking, and 4 Kbps used for performance monitoring information.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package HC-					
	0	1	1C	2	3	4
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 DS0		X				
DS0 to Subrate*	X					
Transfer Arrangement		X				
Clear Channel Capability		X				
Extended Super Frame Format		X				

(E) Volume Term Pricing Plans

(1) DS1 customers have the option of subscribing to 2, 3 or 5-year commitment periods, and to various pricing plans as indicated following:

a. VTPP Plan 1 - 1 to 2 channel terminations.

b. VTPP Plan 2 - 3 to 8 channel terminations.

c. VTPP Plan 3 - 9 to 16 channel terminations

d. VTPP Plan 4 - 17 to 32 channel terminations.

e. VTPP Plan 5 - more than 32 channel terminations.

* Available only on a channel of a 1.544 Mbps facility to a Telephone Company hub.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(E) Volume Term Pricing Plans (Cont'd)

(2) DS1 plans are applicable to channel terminations and channel mileage, fixed and per mile rate elements, as in C. following.

Volume Term Pricing Plans are not applicable to services in other rate plans.

7.3 Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access Service. 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 an NT Network Channel Code and a 2DC8-3 Channel Interface at the customer's location, the following is being requested:

NT = Metallic Channel with a Predefined Technical Specification Package (1)
2 = Number of physical wires at customer location
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)

7.3.1 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
AH -		analog high capacity interface
-	B	60 kHz to 108 kHz (12 channels)
-	C	312 kHz to 552 kHz (60 channels)
-	D	564 kHz to 3084 kHz (600 channels)
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

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

Code	Option	Definition
-	10	VF for TG1 and TG2
-	43	VF for 43 Telegraph Carrier type signals, TG1 and TG2
DC -		direct current or voltage
-	1	monitoring interface with series 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 -		Select-A-Station (and TABS) interface at customer's point of termination
DE -		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 PUB41451 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)
-		31L3.152 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
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 framing format
DX -		duplex signaling interface at customer's point of termination

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

Code	Option	Definition
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 or 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
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 transmission - no dc signaling
-	1	nominal frequency from 50 to 15000 Hz
-	3	nominal frequency from 200 to 3500 Hz
-	5	nominal frequency from 100 to 5000 Hz
-	8	nominal frequency from 50 to 8000 Hz
PR -	0	protective relaying*

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

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.1 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
WA -		wideband bandwidth interface at customer's end user POT
-	1	limited bandwidth
-	2	nominal passband from 29000 to 44000 Hz
WB -		wideband data interface at customer POT
-	18S	18.75 kbps, synchronous
-	19A	up to 19.2 kbps asynchronous
-	19S	19.2 kbps synchronous
-	23A	up to 230.4 kbps, asynchronous
-	23S	230.4 kbps, synchronous
-	40S	40.8 kbps, synchronous
-	50A	up to 50.0 kbps, asynchronous
-	50S	50.0 kbps, synchronous
WC -		wideband data interface at customer's end user POT
-	18	18.75 kbps, synchronous
-	19	for 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps, asychronous
-	23	up to 230.4 kbps, asynchronous
-	23S	230.4 kbps, synchronous
-	40	40.8 kbps, synchronous
-	50	for 12-wire interface: 50.0 kbps, synchronous for 10-wire interface: up to 50.0 kbps, asynchronous

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

Code	Option	Definition
WD	-	wideband bandwidth interface at customer POT
-	1	nominal passband from 300 to 18000 Hz
-	2	nominal passband from 28000 to 44000 Hz
-	3	nominal passband from 29000 to 44000 Hz

7.3.2 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*
135	5
75	6
124	7
Variable	8
100	9

7.3.3 Digital Hierarchy Channel Interface Codes (4DS)

This interface is available to customers that select the multiplexed four-wire DSX-1 or higher facility interface option at the customer-designated location and provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS9, 4DSO or 4DS6 plus the speed options indicated following:

Interface Code and Speed Option	Nominal Bit Rate (Mbps)	Digital Hierarchy Level
4DS8-15	1.544	DS1
4DS9-31	3.152	DS1C
4DSO-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

* 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.

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.4 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 various administrative purposes.

Service Designator Code	Network Channel Code
MTC	MQ
MT1	NT
MT2	NU
MT3	NV
TGC	NQ
TG1	NW
TG2	NY
VGC	LQ
VG1	LB
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
WA1	WJ
WAIT	WQ
WA2	WL
WA2A	WR
WA3	WN
WA4	WP
WD1	WB
WD2	WE
WD3	WF
DA1	XA
DA2	XB

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.4 Service Designator/Network Channel Code Conversion Table

Service Designator Code	Network Channel Code
DA3	XG
DA4	XH
HCO	HS
HC1	HC
HC1	HD
HC2	HE
HC3	HF
HC4	HG

7.3.5 Compatible Channel Interfaces

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

(A) Metallic

Compatible CIs		Compatible CIs	
4AH5-B	2DC8-1	4AH6-D	2DC8-2
4AH5-B	2DC8-2	2DC8-1	2DC8-2
4AH6-C	2DC8-1	2DC8-3	2DC8-3
4AH6-C	2DC8-2	4DS8-*	2DC8-1
4AH6-D	2DC8-1	4DS8-*	2DC8-2

(B) Telegraph Grade

Compatible CIs		Compatible CIs		Compatible CIs	
4AH5-B	10IA8	4AH6-D	2TT2-6	4DB2-43†	2TT2-6
4AH5-B	2TT2-2	4AH6-D	4TT2-6	4DB2-43†	4TT2-2
4AH5-B	4TT2-2	2DB2-1	10IA8	4DS9-*	10IA8
4AH5-B	2TT2-6	2DB2-1	2TT2-2	4DS9-*	2TT2-2
4AH5-B	4TT2-6	2DB2-1	4TT2-2	4DS9-*	4TT2-2
4AH6-C	1OIA8	2DB2-43†	1OIA8	4DS9-*	2TT2-6
4AH6-C	2TT2-2	2DB2-43†	2TT2-2	4DS9-*	4TT2-6
4AH6-C	4TT2-2	2DB2-43†	2TT2-6	2TT2-2	2TT2-2
4AH6-C	2TT2-6	2DB2-43†	4TT2-2	2TT2-3	2TT2-2
4AH6-C	4TT2-6	4DB2-10	1OIA8	2TT2-3	4TT2-2
4AH6-D	1OIA8	4DB2-10	2TT2-2	2TT2-6	2TT2-6
4AH6-D	2TT2-2	4DB2-10	4TT2-2	2TT2-6	4TT2-2
4AH6-D	4TT2-2	4DB2-43†	10IA8	4TT2-2	4TT2-2
				4TT2-6	2TT2-6

* See 7.3.3 preceding for explanation.
† Supplemental Channel Assignment information required.

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade

Compatible CIs		Compatible CIs		Compatible CIs	
4AB2	4AB2				
4AB2	4AC2	4AH5-B	6DA2	4AH6-D	2DY2
4AB3	4AC2	4AH5-B	4DA2	4AH6-C	9DY2
4AB2	2AC2	4AH5-B	2DA2	4AH6-C	9DY3
4AB3	2AC2	4AH6-D	4DE2	4AH6-C	6DY2
2AB2	2AC2	4AH6-C	4DE2	4AH6-C	6DY3
2AB3	2AC2			4AH6-C	4DY2
		4AH5-B	4DE2	4AH6-C	2DY2
4AB2	4SF2	4AH6-D	2DE2	4AH5-B	9DY2
4AB3	4SF2	4AH6-C	2DE2	4AH5-B	9DY3
4AC2	4AC2	4AH5-B	2DE2	4AH5-B	6DY2
4AC2	2AC2			4AH5-B	6DY3
4AH6-D	4AC2	4AH6-D	4DX3	4AH5-B	4DY2
4AH6-D	2AC2	4AH6-C	4DX3	4AH5-B	2DY2
4AH6-C	4AC2	4AH5-B	4DX3		
4AH6-C	2AC2	4AH6-D	4DX2	4AH6-D	9EA2
4AH5-B	4AC2	4AH6-C	4DX2	4AH6-D	9EA3
4AH5-B	2AC2	4AH5-B	4DX2	4AH6-D	6EA2-E
4AH6-D	2CT3			4AH6-D	6EA2-M
4AH6-C	2CT3	4AH6-D	9DY2	4AH6-D	4EA2-E
4AH5-B	2CT3	4AH6-D	9DY3	4AH6-D	4EA2-M
4AH6-D	6DA2	4AH6-D	6DY2	4AH6-C	9EA2
4AH6-D	4DA2	4AH6-D	6DY3	4AH6-C	9EA3
4AH6-D	2DA2	AH6-D	4DY2	4AH6-C	6EA2-E
4AH6-C	6DA2				
4AH6-C	4DA2				
4AH6-C	2DA2				

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4AH6-C	6EA2-M	4AH6-D	6GS2	4AH6-D	2LO2
4AH6-C	4EA2-E	4AH6-D	4GS2	4AH6-C	2LO3
4AH6-C	4EA2-M	4AH6-D	2GS3	4AH6-C	2LO2
4AH5-B	9EA2	4AH6-D	2GS2	4AH5-B	2LO3
4AH5-B	9EA3	4AH6-C	6GS2	4AH5-B	2LO2
4AH5-B	6EA2-E	4AH6-C	4GS2		
4AH5-B	6EA2-M	4AH6-C	2GS3	4AH6-D	4LR2
4AH5-B	4EA2-E	4AH6-C	2GS2	4AH6-D	2LR2
4AH5-B	4EA2-M	4AH5-B	6GS2	AH6-C	4LR2
		4AH5-B	4GS2	4AH6-C	2LR2
4AH6-D	8EB2-E	4AH5-B	2GS3	4AH5-B	4LR2
4AH6-D	8EB2-M	4AH5-B	2GS2	4AH5-B	2LR2
4AH6-D	6EB2-E				
4AH6-D	6EB2-M	4AH6-D	2LA2	4AH6-D	6LS2
4AH6-C	8EB2-E	4AH6-C	2LA2	4AH6-D	4LS2
4AH6-C	8EB2-M	4AH5-B	2LA2	AH6-D	2LS2
4AH6-C	6EB2-E			4AH6-D	2LS3
4AH6-C	6EB2-M	4AH6-D	2LB2	4AH6-C	6LS2
4AH5-B	8EB2-E	4AH6-C	2LB2	4AH6-C	4LS2
4AH5-B	8EB2-M	4AH5-B	2LB2	4AH6-C	2LS2
4AH5-B	6EB2-E			4AH6-C	2LS3
4AH5-B	6EB2-M	4AH6-D	2LC2	4AH5-B	6LS2
		4AH6-C	2LC2	4AH5-B	4LS2
4AH6-D	2GO2	4AH5-B	2LC2	4AH5-B	2LS2
4AH6-D	2G03			4AH5-B	2LS3
4AH6-C	2GO2	4AH6-D	2LO3		
4AH6-C	2G03				
4AH5-B	2GO2				
4AH5-B	2G03				

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4AH6-D	4NO2	2CT3	9DY3	4DB2	4PR2
4AH6-D	2NO2	2CT3	6DY3	4DB2	2PR2
4AH6-C	4NO2	2CT3	9DY2	2DB2	2PR2
4AH6-C	2NO2	2CT3	6DY2		
4AH5-B	4NO2	2CT3	4DY2	4DS8	4AC2
4AH5-B	2NO2	2CT3	2DY2	4DS8	2DA2
4AH6-D	4PR2	2CT3	9EA3	4DS8	6DA2
4AH6-D	2PR2	2CT3	9EA2	4DS8	4DA2
4AH6-C	4PR2	2CT3	6EA2-E	4DS8	2DA2
4AH6-C	2PR2	2CT3	6EA2-M		
4AH5-B	4PR2	2CT3	4EA2-E	4DS8	4DE2
4AH5-B	2PR2	2CT3	4EA2-M	4DS8	2DE2
4AH6-D	4RV2-T	2CT3	83B2-E	4DS8*	4DX3
4AH6-D	2RV2-T	2CT3	8EB2-M	4DS8*	4DX2
4AH6-C	4RV2-T	2CT3	6EB2-E		
4AH6-C	2RV2-T	2CT3	6EB2-M	4DS8*	9DY3
4AH5-B	4RV2-T	2CT3	6EB3-E	4DS8*	9DY2
4AH5-B	2RV2-T			4DS8*	6DY3
		2CT3	8EC2	4DS8*	6DY2
4AH6-D	4SF2				
4AH6-C	4SF2	2CT3	4SF2	4DS8*	4DY2
4AH5-B	4SF2	2CT3	4SF3	4DS8*	2DY2
4AH6-D	4SF3				
4AH6-C	4SF3	6DA2	6DA2	4DS8*	9EA2
4AH5-B	4SF3	6DA2	4DA2	4DS8*	9EA3
4AH6-D	4TF2	4DA2	4DA2	4DS8*	6EA2-E
4AH6-D	2TF2			4DS8*	6EA2-M
4AH6-C	4TF2	4DB2	6DA2	4DS8*	4EA2-E
4AH6-C	2TF2	4DB2	4DA2	4DS8*	4EA2-M
4AH6-B	4TF2	4DB2	2DA2		
4AH6-B	2TF2	2DB3	2DA2		
		2DB2	2DA2		
2CT3	4DS8-*				
		4DB2	4DB2		
2CT3	6DX2				
2CT3	4DX2	4DB2	4NO2		
2CT3	4DX3	4DB2	2NO2		
		2DB2	2NO2		

* See 7.3.3 preceding for explanation.

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4DS8-*	8EB2-E	4DS8-*	4NO2	4DX3	9DY2
4DS8-*	8EB2-M	4DS8-*	2NO2	4DX2	6DY3
4DS8-*	6EB2			4DX3	6DY3
4DS8-*	6EB2-M	4DS8	4PR2	4DX2	6DY2
		4DS8-*	2PR2	4DX3	6DY2
4DS8-*	2GO2			4DX2	4DY2
4DS8-*	2G03	4DS8-*	4RV2-T	4DX3	4DY2
		4DS8-*	2RV2-T	4DX2	2DY2
4DS8-*	6GS2			4DX3	2DY2
4DS8-*	4GS2	4DS8-*	4SF2		
4DS8-*	2GS2	4DS8-*	4SF3	6DX2	9EA3
4DS8-*	2GS3			6DX2	9EA2
		4DS8-*	4TF2	6DX2	6EA2-E
4DS8-*	2LA2	4DS8-*	2TF2	6DX2	6EA2-M
				6DX2	4EA2-E
	2LB2	4DX2	4DX2	6DX2	4EA2-M
4DS8-*		4DX3	4DX2	4DX2	9EA2
4DS8-*	2LC2	4DX3	4DX3	4DX3	9EA2
				4DX2	9EA3
4DS8-*	2LO2	6DX2	9DY3	4DX3	9EA3
4DS8-*	2LO3	6DX2	9DY2	4DX2	6EA2-E
		6DX2	6DY3	4DX3	6EA2-E
4DS8-*	4LR2	6DX2	6DY2	4DX2	6EA2-M
4DS8-*	2LR2	6DX2	4DY2	4DX3	6EA2-M
		6DX2	2DY2	4DX2	4EA2-E
4DS8-*	6LS2	4DX2	9DY3	4DX3	4EA2-E
4DS8-*	4LS2	4DX3	9DY3	4DX2	4EA2-M
4DS8-*	2LS2	4DX2	9DY2	4DX3	4EA2-M
4DS8-*	2LS3				

* See 7.3.3 preceding for explanation.

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
6DX2	8EB2-E	4DX2	6LS2	9DY2	6DY3
6DX2	8EB2-M	4DX3	6LS2	9DY3	4DY2
6DX2	6EB2-E	4DX3	4LS2	9DY2	4DY2
6DX2	6EB2-M			9DY2	2DY2
4DX2	8EB2-E	4DX2	4LS2	9DY3	2DY2
4DX2	8EB2-M	4DX3	2LS3	6DY3	6DY3
4DX3	8EB2-E	4DX2	2LS3	6DY3	6DY2
4DX3	8EB2-M	4DX3	2LS2	6DY2	6DY2
4DX2	6EB2-E	4DX2	2LS2	6DY3	4DY2
4DX2	6EB2-M	2DX3	2LS2	6DY3	2DY2
4DX3	6EB2-E	2DX3	2LS3	6DY2	4DY2
4DX3	6EB2-M	4DX3	4RV2-T	6DY2	2DY2
		4DX2	4RV2-T	4DY2	2DY2
4DX2	2LA2	4DX3	2RV2-T	4DY2	4DY2
4DX3	2LA2	4DX2	2RV2-T		
2DX3	2LA2			6EA2-E	4AC2
		6DX2	4SF2	6EA2-M	4AC2
4DX2	2LB2	4DX2	4SF2	6EA2-E	2AC2
4DX3	2LB2	4DX3	4SF2	6EA2-M	2AC2
2DX3	2LB2	4DX2	4SF3		
		4DX3	4SF3	9EA2	9DY3
4DX2	2LC2			9EA2	9DY2
4DX3	2LC2	9DY3	9DY3	9EA2	6DY3
2DX3	2LC2	9DY3	9DY2	9EA2	6DY2
		9DY2	9DY2	9EA2	4DY2
4DX2	2LO3	9DY3	6DY3	9EA2	2DY2
4DX3	2LO3	9DY3	6DY2	9EA3	9DY3
2DX3	2LO3	9DY2	6DY2		

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
9EA3	9DY2	4EA2-M	9DY2	4EA3-E	9EA2
9EA3	6DY3	4EA2-M	6DY3	4EA3-E	9EA3
9EA3	6DY2	4EA2-M	6DY2	4EA2-M	4EA2-M
9EA3	4DY2	4EA2-M	4DY2		
9EA3	2DY2	4EA2-M	2DY2	9EA2	8EB2-E
6EA2-E	9DY3			9EA2	8EB2-M
6EA2-E	9DY2	9EA2	9EA2	9EA2	6EB2-E
6EA2-E	6DY3	9EA2	9EA3	9EA2	6EB2-M
6EA2-E	6DY2	9EA2	6EA2-E	9EA3	8EB2-E
6EA2-E	4DY2	9EA2	6EA2-M	9EA3	8EB2-M
6EA2-E	2DY2	9EA2	4EA2-E	9EA3	6EB2-E
6EA2-M	9DY3	9EA2	4EA2-M	9EA3	6EB2-M
6EA2-M	9DY2	9EA3	9EA3	6EA2-E	8EB2-E
6EA2-M	6DY3	9EA3	6EA2-E	6EA2-E	8EB2-M
6EA2-M	6DY2	9EA3	6EA2-M	6EA2-E	6EB2-E
6EA2-M	4DY2	9EA3	4EA2-E	6EA2-E	6EB2-M
6EA2-M	2DY2	9EA3	4EA2-M	6EA2-M	8EB2-E
4EA2-E	9DY3	6EA2-E	6EA2-E	6EA2-M	8EB2-M
4EA2-E	9DY2	6EA2-E	6EA2-M	6EA2-M	6EB2-E
4EA3-E	9DY3	6EA2-M	6EA2-M	6EA2-M	6EB2-M
4EA3-E	9DY2	6EA2-E	4EA2-E	4EA2-E	8EB2-E
4EA3-E	6DY3	6EA2-E	4EA2-M	4EA2-E	8EB2-M
4EA3-E	6DY2	6EA2-M	4EA2-E	4EA3-E	8EB2-E
4EA3-E	4DY2	6EA2-M	4EA2-M	4EA3-E	8EB2-M
4EA3-E	2DY2	4EA2-E	4EA2-E	4EA2-E	6EB2-E
4EA2-E	6DY3	4EA3-E	6EA2-E	4EA2-E	6EB2-M
4EA2-E	6DY2	4EA3-E	6EA2-M	4EA3-E	6EB2-E
4EA2-E	4DY2	4EA3-E	4EA2-E	4EA3-E	6EB2-M
4EA2-E	2DY2	4EA3-E	4EA2-M	4EA2-M	8EB2-E
4EA2-M	9DY3	4EA2-E	4EA2-M		

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

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

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
8EB2-M	6EB2-E	8EB2-E	4RV2-T	8EC2	8EB2-M
8EB2-M	6EB2-M	8EB2-M	4RV2-T	8EC2	6EB2-E
6EB2-E	6EB2-E	8EB2-E	2RV2-T	8EC2	6EB2-M
6EB2-E	6EB2-M	8EB2-M	2RV2-T		
6EB3-E	8EB2-E			8EC2	4SF2
6EB3-E	8EB2-M	8EB2-E	4SF2		
6EB2-M	6EB2-M	8EB2-M	4SF2	6EX2-B	2GO3
		8EB2-E	4SF3		
8EB2-E	2LA2	8EB2-M	4SF3	6EX2-A	6GS2
8EB2-M	2LA2	6EB3-E	4SF2	6EX2-A	4GS2
		6EB2-E	4SF2	6EX2-A	2GS2
8EB2-E	2LB2	6EB2-M	4SF2	6EX2-A	2GS3
8EB2-M	2LV2				
		8EC2	9DY2	6EX2-B	2LA2
8EB2-E	2LC2	8EC2	9DY3		
8EB2-M	2LC2	8EC2	6DY2	6EX2-B	2LB2
				8EC2	6DY3
8EB2-E	2LO3	8EC2	4DY2	6EX2-B	2LC2
8EB2-M	2LO3	8EC2	2DY2		
				6EX2-B	2LO2
8EB2-E	6LS2	8EC2	9EA2	6EX2-B	2LO3
8EB2-M	6LS2	8EC2	9EA3		
8EB2-E	4LS2	8EC2	6EA2-E	6EX2-B	4LR2
8EB2-M	4LS2	8EC2	6EA2-M	6EX2-B	2LR2
8EB2-E	2LS2	8EC2	4EA2-E		
8EB2-M	2LS2	8EC2	4EA2-M	6EX2-A	6LS2
8EB2-E	2LS3			6EX2-A	4LS2
8EB2-M	2LS3	8EC2	8EB2-E	6EX2-A	2LS2
				6EX2-A	2LS3

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
6EX2-A	4SF2	6LO2	6LS2	4LR2	4SF2
6EX2-B	4SF2	6LO2	4LS2	4LR3	4SF2
		6LO2	2LS2		
6GO2	6GS2	6LO2	2LS3	6LS2	2LA2
6GO2	4GS2	4LO2	6LS2	4LS2	2LA2
6GO2	2GS2	4LO2	4LS2	4LS3	2LA2
6GO2	2GS3	4LO3	6LS2	2LS2	2LA2
4GO2	6GS2	4LO3	4LS2	2LS3	2LA2
4GO3	6GS2	4LO3	2LS3		
4GO2	4GS2	4LO3	2LS2	6LS2	2LB2
4GO3	4GS2	4LO2	2LS2	4LS2	2LB2
4GO2	2GS2	4LO2	2LS3	4LS3	2LB2
4GO2	2GS3	2LO3	2LS3	2LS2	2LB2
4GO3	2GS2	2LO3	2LS2	2LS3	2LB2
4GO3	2GS3	2LO2	2LS2		
2GO2	2GS2	2LO2	2LS3	6LS2	2LC2
2GO3	2GS2			4LS2	2LC2
2GO2	2GS3	6LO2	4SF2	4LS3	2LC2
2GO3	2GS3	4LO2	4SF2	2LS2	2LC2
		4LO3	4SF2	2LS3	2LC2
6GO2	4SF2				
4GO2	4SF2	4LR3	4LR2	6LS2	2LO3
4GO3	4SF2	4LR3	2LR2	6LS2	2LO2
		4LR2	4LR2	4LS2	2LO2
6GS2	2GO2	4LR2	2LR2	4LS2	2LO3
4GS2	2GO2	2LR2	2LR2	4LS3	2LO2
4GS3	2GO2	2LR3	2LR2	4LS3	2LO3
4GS2	2GO3				

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
6LS2	4SF2	4SF3	9DY2	4SF2	2LB2
4LS3	4SF2	4SF2	9DY3	4SF3	2LB2
		4SF3	6DY3		
4NO2	6DA2	4SF2	6DY2	4SF2	2LC2
4NO2	4DA2	4SF2	6DY3	4SF3	2LC2
4NO2	2DA2	4SF3	6DY2		
2NO2	2DA2	4SF2	4DY2	4SF2	2LO3
		4SF3	4DY2	4SF3	2LO3
4NO2	4DE2	4SF3	2DY2		
4NO2	2DE2	4SF2	2DY2	4SF2	2LR2
				4SF3	4LR2
4NO2	4NO2	4SF3	9EA2	4SF3	2LR2
4NO2	2NO2	4SF3	9EA3		
2NO2	2NO2	4SF3	4EA2-E	4SF3	6LS2
2NO3	2NO2	4SF3	4EA2-M	4SF2	4LS2
				4SF3	4LS2
2NO3	2PR2	4SF3	6EB2-E	4SF2	2LS2
		4SF3	6EB2-M	4SF2	2LS3
4RV2-O	4RV2-T	4SF2	2GO3	4SF3	2LS2
4RV2-O	2RV2-T	4SF3	6GS2	4SF3	2LS3
2RV2-O	2RV2-T	4SF2	6GS2		
		4SF2	4GS2	4SF3	4RV2-T
4RV2-O	4SF2	4SF3	4GS2	4SF2	4RV2-T
		4SF2	2GS2	4SF2	2RV2-T
4SF2	4AC2	4SF2	2GS3	4SF3	2RV2-T
4SF2	2AC2	4SF3	2GS2		
		4SF3	2GS3	4SF3	4SF3
4SF3	9DY3				
4SF2	9DY2	4SF2	2LA2	4SF3	4SF2
		4SF3	2LA2	4SF2	4SF2
				4TF2	4TF2
				4TF2	4TF2
				2TF3	2TF3

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(D) Program Audio

Compatible CIs		Compatible CIs		Compatible CIs	
4AH5-B	2PG1-3	4AH6-D	2PG1-3	4DS8-15F	2PG2-5
4AH5-B	2PG1-5	4AH6-D	2PG1-5	4DS8-15G	2PG2-8
4AH5-B	2PG1-8	4AH6-D	2PG1-8	4DS8-15H	2PG2-1
4AH5-B	2PG2-3	4AH6-D	2PG2-3	2PG2-1	2PG1-1
4AH5-B	2PG2-5	4AH6-D	2PG2-5	2PG2-1	2PG2-1
4AH5-B	2PG2-8	4AH6-D	2PG2-8	2PG2-3	2PG1-3
4AH6-C	2PG1-3	4DS8-15E	2PG1-3	2PG2-3	2PG2-3
4AH6-C	2PG1-5	4DS8-15F	2PG1-5	2PG2-5	2PG1-5
4AH6-C	2PG1-8	4DS8-15G	2PG1-8	2PG2-5	2PG2-5
4AH6-C	2PG2-3	4DS8-15H	2PG1-1	2PG2-8	2PG1-8
4AH6-C	2PG2-5	4DS8-15E	2PG2-3	2PG2-8	2PG2-8
4AH6-C	2PG2-8				

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(F) Wideband Analog

Compatible CIs		Compatible CIs		Compatible CIs	
4AH5-B	4AH5-B	4AH6-D	4AH6-D	4WD5-1	4WA5-1
4AH6-C	4AH5-B	4AH5-B	4DS8-15	4WD5-2	4WA5-1
4AH6-C	4AH6-C			4WD5-3	4WA5-2
4AH6-D	4AH5-B				
4AH6-D	4AH6-C				
		4AH5-B	4DU8-A, B or C		
		4AH6-C	4DU8-A, B or C		
		4AH6-D	4DU8-A, B or C		

(G) Wideband Data

Compatible CIs		Compatible CIs		Compatible CIs	
8WB5-18S	12WC6-18	8WB5-23A	10WC6-23	8WB5-50A	10WC6-50
8WB5-19A	10WC6-19	8WB5-23S	12WC6-23S	8WB5-50S	12WC6-50
8WB5-19S	12WC6-19	8WB5-40S	12WC6-40		

(H) Digital Data

Compatible CIs		Compatible CIs		Compatible CIs	
4DS8-15	4DS8-15*	4DS8-15	6DU5-48		
4DS8-15	4DU5-24	4DS8-15	6DU5-56	4DU5-96	4DU5-96
4DS8-15	4DU5-48	4DS8-15	6DU5-96	6DU5-24	6DU5-24
4DS8-15	4DU5-56	4DU5-24	4DU5-24	6DU5-48	6DU5-48
4DS8-15	4DU5-96	4DU5-48	4DU5-48	6DU5-56	6DU5-56
4DS8-15	6DU5-24	4DU5-56	4DU5-56	6DU5-96	6DU5-96

(I) High Capacity

Compatible CIs		Compatible CIs	
4DS0-63	4DS0-63	4DS8-15	6DU8-B
4DS0-63	6DU8-A,B or C	4DS8-15	4DU8-B
4DS0-63	4DU8-A,B or C	4DS8-15J	6DU8-A
4DS6-27	4DS6-27	4DS8-15J	4DU8-A
4DS6-27	6DU8-A,B or C	4DS8-15K	6DU8-B
4DS6-27	4DU8-A,B or C	4DS8-15K	4DU8-B
4DS6-44	4DS6-44	4DS8-15K	6DU8-C
4DS6-44	6DU8-A,B or C	4DS8-15K	4DU8-C
4DS6-44	4DU8-A,B or C	4DS9-31	4DS9-31
4DS8-15	4DS8-15†	4DS9-31	6DU8-A,B or C
4DS8-15J	4DS8-15J	4DS9-31	4DU8-A,B or C
4DS8-15K	4DS9-15K	4DU8-A,B or C	4DU8-A,B or C

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

† Available also as a cross connect of two individual channels of 1.544 Mbps facilities at a Telephone Company hub.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations

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

7.4.1 Types of Rates and Charges

There are three types of rates and charges. These are monthly rates, daily rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

(B) Daily Rates

Daily rates are flat recurring rates that apply to each 24-hour period or fraction thereof that a Program Audio service is provided for part-time or occasional use. For purposes of applying daily rates, the 24-hour period is not limited to a calendar day.

The application of daily rates for Program Audio service during a consecutive 30-day period is as follows: Daily rates will be topped at an amount equal to the monthly rate (i.e., the charge to the customer for usage billed at daily rates will not exceed the monthly rate). For each day or part day of usage after the daily rates have been topped, a charge equal to 1/30th of the monthly rate will apply.

(C) Nonrecurring Charges

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

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set forth in 7.5 following as a nonrecurring charge for the Channel Termination rate element.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(2) Installation of Optional Features and Functions

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

The optional features for which nonrecurring charges apply are:

Voice Grade Data Capability
Voice Grade Telephoto Capability
Program Audio Gain Conditioning
Program Audio Stereo
Wideband Data Transfer Arrangement

(3) Service Rearrangements

Service rearrangements are changes to existing installed services which do not result in either a change in the minimum period requirements (i.e., change from one type of Special Access Service to another or a change from one type of Channel Termination to another) or a change in the physical location of the point of termination at a customer designated location. Changes in the type of Service or Channel Termination are treated as disconnects and starts. Changes in the physical location of the point of termination are treated as moves and are described and charged for as set forth in 7.4.5 following.

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

Administrative changes will be made without charge to the customer. Administrative changes are as follows:

Change of customer name,

Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,

Change in billing data (name, address, or contact name or telephone number),

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

Change of agency authorization,

Change of customer circuit identification,

Change of billing account number,

Change of customer test line number,

Change of customer or customer's end user contact name or telephone number, and

Change of jurisdiction.

All other service rearrangements will be charged for as follows:

If the change involves the addition of another leg to an existing multipoint service, the nonrecurring charge for the channel termination rate element will apply. The charge will apply only for the leg that is being added.

If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.

If the change involves changing the type of signaling on a Voice Grade service, a charge equal to the Voice Grade channel termination rate element nonrecurring charge will apply. The charge will apply per service termination affected.

For all other changes, including the addition of optional features without separate nonrecurring charges, a charge equal to a channel termination rate element nonrecurring charge will apply. Only one such charge will apply per service, per change.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service

(A) General

In addition to the rates and charges described in 7.4.1 preceding, there is a monthly Special Access Surcharge that may apply to Special Access Service. The monthly Special Access Surcharge applies to Special Access Services arranged on a per voice equivalent basis as specified in the following example:

The monthly Special Access Surcharge applies to special access facilities arranged, as set forth in Section 3 preceding, on a per-voice equivalent basis as shown in the following example:

Special Access Facility	Voice Grade Equivalent		Surcharge		Monthly Charge
Group	12	x	$25	=	$300.00
DS1	24	x	25	=	600.00

In the case of multipoint special access facilities, one Special Access Surcharge will apply for each termination of a special access channel at an end user's location.

The Telephone Company will bill the customer who orders the special access facility the Special Access Surcharge on each special access facility installed unless the special access is exempt from the surcharge as set forth in (B) following.

(B) The special access facility will be exempted from the monthly surcharge if the customer provides the Telephone Company written certification that the intrastate special access facility termination is one of the following:

(a) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA-equivalent ONALs; or

(b) an analog channel termination that is used for radio or television program transmission; or

(c) a termination used for TELEX service; or

(d) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines; or

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(B) (Cont'd)

(e) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges such as, where the special access facility access only FGA and no local exchange lines, or special access facility between customer points of termination, or special access facility connecting CCSA or CCSA-type equipment (intermachine trunks); or

(f) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device capable of interconnecting the special access facility to a local exchange subscriber line.

(C) Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification that the special access facility has become exempt from the surcharge, as set forth in (B) preceding, is received. If the status of the special access facility was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety days, based on the effective date of the change specified by the customer in the letter of certification.

If appropriate exemption certification is not received by the Telephone Company by the end of the sixty-day deferral period, the billed Special Access Surcharges will become due. These charges, if unpaid, will be subject to a late payment charge as set forth in Section 2.4.1(B)(2) preceding. Customers who provide exemption certification within the first ninety days following the surcharge effective date, will be given credit for the surcharge effective date.

7.4.3 Minimum Periods

The minimum service period for all services except part-time and occasional Program Audio service is one month. The minimum service period for part-time and occasional Program Audio service is one day (i.e., a continuous 24-hour period, not limited to a calendar day).

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.4 Moves

A move involves a change in the physical location of one of the following:

The Point of Termination at the customer's location
The customer's location

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements.

(B) Moves To a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

7.4.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage is calculated on the airline distance between the locations involved, i.e., the serving wire centers associated with two customer-designated premises, a serving wire center associated with a customer-designated premises and a Telephone Company hub or two Telephone Company hubs. The serving wire center associated with a customer-designated premises is the serving wire center from which the customer-designated premises would normally obtain dial tone.

Mileage is shown in 7.5 following in terms of mileage bands. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, then find the band into which the computed mileage falls and apply the rates shown for that band. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the rates.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.5 Moves (Cont'd)

When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e., customer-designated premises serving wire center to hub, hub to hub and/or hub to customer-designated premises serving wire center. However, when any service is routed through a hub for purposes other than customer-specified bridging or multiplexing (e.g., the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer-designated premises.

7.4.6 Facility Hubs

A customer has the option of ordering Voice Grade facilities or analog or digital high capacity facilities (i.e., Group, Supergroup, Master-group, DS1, DS1C, DS2, DS3 or DS4) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Telegraph, Voice, Program Audio, etc.).

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When ordering, the customer will specify the desired multiplexing hub(s) from a list* that the Telephone Company will make available. The hub list will specify the type of multiplexing available at a specific location and the wire centers served from that hub.

Some of the types of multiplexing available include the following:

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

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

The Telephone Company will commence billing the monthly rate for the facility to the hub on the date specified by the customer or the service order. Individual services utilizing these facilities may be installed

* Same as the list specified for the State of Virginia in the National Exchange Carrier Association Tariff, F.C.C. No. 4.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.6 Facility Hubs (Cont'd)

coincident with the installation of the facility to the hub, or may be ordered and/or installed at a later date, at the option of the customers. The customer will be billed for a Voice Grade or a high capacity analog or digital Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the facility is installed. Individual service rates (by service type) will apply for the Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a high capacity analog or digital channel is demultiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further demultiplexed. For example, a Supergroup facility is demultiplexed to five Group facilities and then one of the Group facilities is further demultiplexed to individual voice grade channels.

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

Although not requiring multiplexing, the Telephone Company will designate certain hubs for Program Audio Service. Full-time service will be provided between a customer-designated location and a hub and billed accordingly at the monthly rates set forth in 7.5.4 and 7.5.5 following for a Channel Termination, Optional Features and Functions, and Channel Mileage, as applicable. The customer may order part-time and occasional Program Audio service as needed between that hub and a second customer-designated location. The rate elements required to provide the part-time or occasional service (i.e., Channel Termination, Optional Features and Functions, and Channel Mileage, as applicable) will be billed at daily rates for the duration of the service requested.

The Telephone Company will also designate certain Hubs for Public Data Network Access Concentrators, Packet Switches and the provision of Other Network Services. Access Concentrators collect customer data packets from many access lines, multiplexes them on to trunks and delivers the packets to the Packet Switch. The Packet Switch performs the routing function to deliver the packets to the identified customer.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.7 Shared Use Analog and Digital High Capacity Services

Shared use occurs when Special Access Service and Switched Access Service are provided over the same Wideband Analog or High Capacity facilities through a common interface. The facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexer). The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate Special Access Wideband Analog or High Capacity Channel Termination. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the shared use facility. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for providing Switched Access Service. As each individual channel is activated for Switched Access Service, the Special Access Channel Termination and Channel Mileage rates will be reduced accordingly (e.g., 1/12th for a group (i.e., WA1) service, 1/24th for a DS1 service, etc). The customer must place an order for each individual Switched or Special Access Service utilizing the Shared Use Facilities and specify the channel assignment for each such service.

Switched Access Service rates and charges as set forth in 6.8 preceding will apply for each channel of the shared use facility that is used to provide Switched Access Service. Where Special Access Service is provided utilizing a channel of the shared facility to the hub. Wideband Analog or High Capacity rates and charges will apply for the facility to the Hub as set forth preceding and individual service rates and charges will apply from the hub to the customer-designated location. The rates and charges that will apply to the portion from the hub to the customer-designated location will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade, Telegraph, etc.). The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply as set forth in 7.5 following.

7.4.8 Special Access Rate Exceptions

Services provided by the Telephone Company to connect a customer location to a Public Data Network Access Concentrator or Packet Switch will be rated as a channel termination and, when the customer is normally served by a different serving office, channel mileage applies from the normal serving office to the concentrator or the switch serving office. No channel termination applies at the concentrator or the switch serving office except where protocol conversion is provided, in which case a channel termination will apply to the protocol conversion provider.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.8 Special Access Rate Exceptions (Cont'd)

Services provided by the Telephone Company to connect a customer location to an Interexchange Access Frame Relay Switch (XA-FRS) or an Exchange Access Switched Multi-Megabit Data Service (XA-SMDS) switch will be rated as a channel termination. A channel termination at the XA-FRS switch or XA-SMDS switch serving office and channel mileage from the customer serving wire center to the XA-FRS switch or the XA-SMDS switch, respectively, are not applicable under the provisions of this service.

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.1 Metallic Service

	Nonrecurring Charge	Per Month
(A) Channel Termination, per point of termination	$71.25	$16.28

(B) Channel Mileage, per mileage band

	Per Month	
Mileage Bands	Fixed	Per Mile
0	None	None
Over 0 to 4	None	$ 2.64
Over 4 to 8	None	2.64
Over 8 to 25	None	2.64
Over 25 to 50	None	2.64
Over 50	None	2.64

(C) Optional Features and Functions	Nonrecurring Charge	Per Month
Bridging		
(1) Three-premises Bridging, per port	-	$ 3.33
(2) Series Bridging, per port	-	3.33

7.5.2 Telegraph Grade Service

(A) Channel Termination, per point of termination

Two-wire	$71.25	20.12
Four-wire	71.25	25.01

(B) Channel Mileage, per mileage band

	Per Month	
Mileage Bands	Fixed	Per Mile
0	None	None
Over 0 to 4	$14.66	$ 3.62
Over 4 to 8	15.02	3.27
Over 8 to 25	29.88	2.02
Over 25 to 50	48.48	1.12
Over 50	69.41	.98

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.2 Telegraph Grade Service (Cont'd)

(C) Optional Features and Functions

Telegraph Bridging, two-wire and four-wire, per port	Per Month
Two-wire	$3.33
Four-wire	3.33

7.5.3 Voice Grade Service

(A) Channel Termination, per point of termination

	Nonrecurring Charge	
Two-wire	$73.37	$30.24
Four-wire	73.37	34.03

(B) Channel Mileage, per mileage band

	Per Month	
Mileage Bands	Fixed	Per Mile
0	None	None
Over 0 to 4	$14.66	$3.62
Over 4 to 8	15.02	3.27
Over 8 to 25	29.88	2.02
Over 25 to 50	48.48	1.12
Over 50	69.41	.98

(C) Optional Features and Functions

(1) Bridging

(a) Voice Bridging

Two-wire/Four-wire, per port	Per Month
Two-wire	$3.33
Four-wire	3.33

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(1) Bridging (Cont'd)

(b) Data Bridging

Two-wire/Four-wire, per port	Per Month
Two-wire	$3.33
Four-wire	3.33

(c) Telephoto Bridging

Two-wire/Four-wire, per port	
Two-wire	3.33
Four-wire	3.33

(d) Select-A-Station Service Bridging

Sequential Arrangement Ports	
Per 2-wire channel connected	18.55
Per 4-wire channel connected	97.44
Addressable Arrangement Ports	
Per 2-wire channel connected	18.11
Per 4-wire channel connected	97.44

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(1) Bridging (Cont'd)

(e) Telemetry and Alarm Bridging

Active Bridging Channel Connections

Split Band	Per Month
Per channel connected	$ 7.29
Summation	
Per channel connected	1.03
Passive Bridging Channel Connections	
Per channel connected	.17

(2) Conditioning	Nonrecurring Charge	
Per point of termination		
C-Type	-	5.25
Sealing Current	-	None

(3) Improved Return Loss for Effective Two-wire or Four-wire Transmission, per point of termination

Two-wire	-	1.11
Four-wire	-	1.11

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

	Nonrecurring Charge	Per Month
(4) Customer-specified Receive Level, per two-wire point of termination	-	None
(5) Multiplexing		
Voice to Telegraph Grade, per arrangement	-	$166.94
(6) Data Capability, per point of termination	219.96	.08
(7) Telephoto Capability, per point of termination	219.96	2.13
(8) Signaling Capability, per point of termination		7.45

In lieu of ++, substitute appropriate two-digit code from the following list to specify type of signaling.

AB	EC	LO
AC	EX	LR
CT	GO	LS
DX	GS	RV
DY	LA	SF
EA	LB	
EB	LC	

(9) Selective Signaling Arrangement, per arrangement		12.93

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

	Per Month
(10) Transfer Arrangement (key-activated* or dial-up†), per four-port arrangement including control channel termination#	$ 2.76
Per five-port arrangement including control channel termination#.....	6.30

7.5.4 Program Audio Service

	Per Month	Daily Rates	Nonrecurring Charge Full Time	Nonrecurring Charge Part Time
(A) Channel Termination, per point of termination				
200 to 3500 Hz....	$16.19	$ 1.62	$46.25	$46.25
100 to 5000 Hz....	43.87	4.39	46.25	46.25
50 to 8000 Hz....	42.58	4.26	46.25	46.25
50 to 15000 Hz....	129.42	12.95	46.25	46.25

* The key-activated control channel is rated as a Metallic Channel Termination (use USOC T6EME in lieu of T6ECS) and Channel Mileage, if applicable (use USOC 1L5MX in lieu of 1L5XX)

† The dial-up option requires the customer to purchase the Controller Arrangement (USOC XTDDU) from 13.3.7 following.

\# An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customers premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.4 Program Audio Service (Cont'd)

(B) Channel Mileage, per mileage band

	Per Month		Daily Rates	
	Fixed	Per Mile	Fixed	Per Mile
(1) 200 to 3500 Hz				
Mileage Bands				
0	None	None	None	None
Over 0 to 4	$15.52	$3.37	$1.55	$.34
Over 4 to 8	15.52	3.37	1.55	.34
Over 8 to 25	18.67	2.97	1.86	.31
Over 25 to 50	33.72	1.49	3.38	.14
Over 50	33.72	1.49	3.38	.14
(2) 100 to 5000 Hz				
Mileage Bands				
0	None	None	None	None
Over 0 to 4	19.23	5.92	1.93	.59
Over 4 to 8	19.23	5.92	1.93	.59
Over 8 to 25	28.27	4.35	2.83	.44
Over 25 to 50	54.13	2.18	5.41	.22
Over 50	54.13	2.18	5.41	.22
(3) 50 to 8000 Hz				
Mileage Bands				
0	None	None	None	None
Over 0 to 4	28.30	4.80	2.83	.48
Over 4 to 8	28.30	4.91	2.83	.50
Over 8 to 25	28.95	5.59	2.89	.56
Over 25 to 50	56.88	5.25	5.69	.52
Over 50	56.88	4.54	5.69	.46
(4) 50 to 15000 Hz				
Mileage Bands				
0	None	None	None	None
Over 0 to 4	31.98	11.74	3.19	1.18
Over 4 to 8	31.98	11.74	3.19	1.18
Over 8 to 25	45.45	10.69	4.55	1.07
Over 25 to 50	80.89	9.78	8.10	.98
Over 50	80.89	9.78	8.10	.98

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.4 Program Audio Service (Cont'd)

(C) Optional Features and Functions	Per Month	Daily Rates	Nonrecurring Charge	
			Full Time	Part Time
(1) Bridging Distribution Amplifier, per port	$ 16.77	$ 1.68	-	-
(2) Gain Conditioning, per service	5.54	.55	$154.16	$154.16
(3) Stereo, per service	None	None	339.34	339.34

7.5.5 (Reserved for Future Use)

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.6 Wideband Analog Service

	Nonrecurring Charge	Per Month
(A) Channel Termination, per point of termination		
60 kHz - 108 kHz (AH-B).....	ICB	ICB
312 kHz - 552 kHz (AH-C).....	ICB	ICB
564 kHz - 3084 kHz (AH-D).....	ICB	ICB
300 kHz - 18 kHz (WD-1).....	ICB	ICB
29 kHz - 44 kHz (WD2&3).....	ICB	ICB

(B) Channel Mileage, per mileage band	Per Month Fixed	Per Month Per Mile
(1) 60 kHz - 108 kHz		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB
(2) 312 kHz - 552 kHz		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB
(3) 564 kHz - 3084 kHz		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.6 Wideband Analog Service (Cont'd)

	Per Month	
	Fixed	Per Mile
(B) Channel Mileage, per mileage band (Cont'd)		
(4) 300 Hz - 18 kHz		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB
(5) 29 kHz - 44 kHz		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB
(C) Optional Features and Functions		
(1) Multiplexing		
(a) Mastergroup to Supergroup, per arrangement	ICB	None
(b) Supergroup to Group, per arrangement	ICB	None
(c) Group to Voice, per arrangement	ICB	None
(d) Group to DS1*, per arrangement	ICB	None

* Requires two 60-108 kHz Channel Terminations and Channel Mileage, one 1.544 Mbps Channel Mileage and either a 1.544 Mbps Channel Termination or a DS1 to Voice multiplexing optional feature, depending on whether the service terminates at a customer's location or was purchased as a facility to a Telephone Company hub for multiplexing to Voice Grade.

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.7 Wideband Data Service

	Nonrecurring Charge	Per Month
(A) Channel Termination, per point of termination		
19.2 or 18.75 kbps.....	ICB	ICB
50.0 or 40.8 kbps.....	ICB	ICB
230.4 kbps.....	ICB	ICB

(B) Channel Mileage, per mileage band	Per Month	
	Fixed	Per Mile
(1) 19.2 or 18.75 kbps		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB
(2) 50.0 or 40.8 kbps		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB
(3) 230.4 kbps		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.7 Wideband Data Service (Cont'd)	Nonrecurring Charge	Per Month
(C) Optional Features and Functions		
Key-activated Transfer Arrangement, per four-port arrangement including control Channel Termination*.....	ICB	ICB
(D) 303 Data Station, per point of termination where provided	ICB	ICB

7.5.8 Digital Data Service

(A) Channel Termination, per point of termination		
2.4 kbps	$457.63	$57.54
4.8 kbps	457.63	57.54
9.6 kbps	457.63	57.54
56.0 kbps	457.63	86.38

(B) Channel Mileage, per mileage band	Per Month Fixed	Per Mile
(1) 2.4 kbps		
Mileage Bands		
0	None	None
Over 0 to 4	$55.65	$3.34
Over 4 to 8	55.65	3.34
Over 8 to 25	64.88	2.18
Over 25 to 50	81.20	1.54
Over 50	81.20	1.54
2) 4.8 kbps		
Mileage Bands		
0	None	None
Over 0 to 4	55.65	3.34
Over 4 to 8	55.65	3.34
Over 8 to 25	64.88	2.18
Over 25 to 50	81.20	1.54
Over 50	81.20	1.54

* The key-activated control channel is rated as a Metallic Channel Termination (use USOC T6EME in lieu of T6ECS) and Channel Mileage, if applicable (use USOC 1L5MX in lieu of 1L5XX).

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.8 Digital Data Service (Cont'd)

(B) Channel Mileage, per mileage band (Cont'd)

(3) 9.6 kbps

Mileage Bands	Per Month Fixed	Per Month Per Mile
0	None	None
Over 0 to 4	$63.93	$3.38
Over 4 to 8	58.25	2.63
Over 8 to 25	58.25	2.63
Over 25 to 50	78.38	1.83
Over 50	81.08	1.78

(4) 56 kbps

Mileage Bands	Per Month Fixed	Per Month Per Mile
0	None	None
Over 0 to 4	$ 118.20	$6.92
Over 4 to 8	118.20	6.92
Over 8 to 25	127.25	3.10
Over 25 to 50	154.89	1.76
Over 50	154.89	1.76

(C) Pricing Plans

Plan 1

Channel Mileage

2-Year Plan

2.4 Kbps		
Over 0 to 4	$45.07	$2.62
Over 4 to 8	45.07	2.62
Over 8 to 25	52.55	1.71
Over 25 to 50	65.77	1.21
Over 50	65.77	1.21
4.8 Kbps		
Over 0 to 4	$45.07	$2.62
Over 4 to 8	45.07	2.62
Over 8 to 25	52.55	1.71
Over 25 to 50	65.77	1.21
Over 50	65.77	1.21

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.8 Digital Data Service (Cont'd)

(C) Pricing Plans (Cont'd)

Plan 1 (Cont'd)

Channel Mileage (Cont'd)

2 Year Plan	Per Month Fixed	Per Mile
9.6 Kbps		
Over 0 to 4	$ 51.78	$2.65
Over 4 to 8	47.18	2.06
Over 8 to 25	47.18	2.06
Over 25 to 50	63.47	1.43
Over 50	65.67	1.40
56 Kbps		
Over 0 to 4	95.73	5.43
Over 4 to 8	95.73	5.43
Over 8 to 25	103.06	2.43
Over 25 to 50	125.45	1.38
Over 50	125.45	1.38
3 Year Plan		
2.4 Kbps		
Over 0 to 4	43.69	2.48
Over 4 to 8	43.69	2.48
Over 8 to 25	50.94	1.62
Over 25 to 50	63.75	1.14
Over 50	63.75	1.14
4.8 Kbps		
Over 0 to 4	43.69	2.48
Over 4 to 8	43.69	2.48
Over 8 to 25	50.94	1.62
Over 25 to 50	63.75	1.14
Over 50	63.75	1.14
9.6 Kbps		
Over 0 to 4	50.20	2.58
Over 4 to 8	45.73	2.01
Over 8 to 25	45.73	2.01
Over 25 to 50	61.53	1.40
Over 50	63.66	1.36
56 Kbps		
Over 0 to 4	92.80	5.29
Over 4 to 8	92.80	5.29
Over 8 to 25	99.90	2.37
Over 25 to 50	121.61	1.34
Over 50	121.61	1.34

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.8 Digital Data Service (Cont'd)

(C) Pricing Plans (Cont'd)

Plan 1 (Cont'd)

Channel Mileage (Cont'd)

	Per Month	
5 Year Plan	Fixed	Per Mile
2.4 Kbps		
Over 0 to 4	$ 41.39	$ 2.21
Over 4 to 8	41.39	2.21
Over 8 to 25	48.26	1.44
Over 25 to 50	60.40	1.02
Over 50	60.40	1.02
4.8 Kbps		
Over 0 to 4	41.39	2.21
Over 4 to 8	41.39	2.21
Over 8 to 25	48.26	1.44
Over 25 to 50	60.40	1.02
Over 50	60.40	1.02
9.6 Kbps		
Over 0 to 4	47.56	2.51
Over 4 to 8	43.33	1.95
Over 8 to 25	43.33	1.95
Over 25 to 50	58.29	1.36
Over 50	60.31	1.32
56 Kbps		
Over 0 to 4	87.91	5.15
Over 4 to 8	87.91	5.15
Over 8 to 25	94.64	2.30
Over 25 to 50	115.21	1.31
Over 50	115.21	1.31

Channel Terminations	Per Month
2 Year Plan	
2.4 Kbps	$ 46.60
4.8 Kbps	46.60
9.6 Kbps	46.60
56 Kbps	69.96

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.8 Digital Data Service (Cont'd)

(C) Pricing Plans (Cont'd)

Plan 1 (Cont'd)

Channel Terminations	Per Month
3 Year Plan	
2.4 Kbps	$45.17
4.8 Kbps	45.17
9.6 Kbps	46.36
56 Kbps	69.61
5 Year Plan	
2.4 Kbps	42.80
4.8 Kbps	42.80
9.6 Kbps	45.17
56 Kbps	67.87

Plan 2

Channel Mileage

	Per Month	
2 Year Plan	Fixed	Per Mile
2.4 Kbps		
Over 0 to 4	$43.69	$ 2.48
Over 4 to 8	43.69	2.48
Over 8 to 25	50.94	1.62
Over 25 to 50	63.75	1.14
Over 50	63.75	1.14
4.8 Kbps		
Over 0 to 4	43.69	2.48
Over 4 to 8	43.69	2.48
Over 8 to 25	50.94	1.62
Over 25 to 50	63.75	1.14
Over 50	63.75	1.14
9.6 Kbps		
Over 0 to 4	50.20	2.51
Over 4 to 8	45.73	1.95
Over 8 to 25	45.73	1.95
Over 25 to 50	61.53	1.36
Over 50	63.66	1.32
56 Kbps		
Over 0 to 4	92.80	5.15
Over 4 to 8	92.80	5.15
Over 8 to 25	99.90	2.30
Over 25 to 50	121.61	1.31
Over 50	121.61	1.31

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.8 Digital Data Service (Cont'd)

(C) Pricing Plans (Cont'd)

Plan 2

Channel Mileage

3 Year Plan	Per Month Fixed	Per Month Per Mile
2.4 Kbps		
Over 0 to 4	$ 41.39	$ 2.35
Over 4 to 8	41.39	2.35
Over 8 to 25	48.26	1.53
Over 25 to 50	60.40	1.08
Over 50	60.40	1.08
4.8 Kbps		
Over 0 to 4	41.39	2.35
Over 4 to 8	41.39	2.35
Over 8 to 25	48.26	1.53
Over 25 to 50	60.40	1.08
Over 50	60.40	1.08
9.6 Kbps		
Over 0 to 4	48.88	2.51
Over 4 to 8	44.53	1.95
Over 8 to 25	44.53	1.95
Over 25 to 50	59.91	1.36
Over 50	61.98	1.32
56 Kbps		
Over 0 to 4	90.35	5.15
Over 4 to 8	90.35	5.15
Over 8 to 25	97.27	2.30
Over 25 to 50	118.41	1.31
Over 50	118.41	1.31
5 Year Plan		
2.4 Kbps		
Over 0 to 4	39.09	2.07
Over 4 to 8	39.09	2.07
Over 8 to 25	45.58	1.35
Over 25 to 50	57.04	.95
Over 50	57.04	.95

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.8 Digital Data Service (Cont'd)

(C) Pricing Plans (Cont'd)

Plan 2

Channel Mileage

5 Year Plan	Per Month Fixed	Per Mile
4.8 Kbps		
Over 0 to 4	$ 39.09	2.07
Over 4 to 8	39.09	2.07
Over 8 to 25	45.58	1.35
Over 25 to 50	57.04	.95
Over 50	57.04	.95
9.6 Kbps		
Over 0 to 4	46.24	2.44
Over 4 to 8	42.12	1.90
Over 8 to 25	42.12	1.90
Over 25 to 50	56.67	1.32
Over 50	58.63	1.29
56 Kbps		
Over 0 to 4	85.47	5.01
Over 4 to 8	85.47	5.01
Over 8 to 25	92.02	2.24
Over 25 to 50	112.01	1.27
Over 50	112.01	1.27

Channel Terminations	Per Month
2 Year Plan	
2.4 Kbps	$ 45.17
4.8 Kbps	45.17
9.6 Kbps	45.17
56 Kbps	67.82
3 Year Plan	
2.4 Kbps	42.80
4.8 Kbps	42.80
9.6 Kbps	45.17
56 Kbps	67.82

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.8 Digital Data Service (Cont'd)

(C) Pricing Plans (Cont'd)

Plan 2

Channel Terminations (Cont'd)	Per Month
5 Year Plan	
2.4 Kbps	$40.42
4.8 Kbps	40.42
9.6 Kbps	43.98
56 Kbps	66.04

Plan 3

Channel Mileage

	Per Month	
2 Year Plan	Fixed	Per Mile
2.4 Kbps		
Over 0 to 4	$41.39	$ 2.35
Over 4 to 8	41.39	2.35
Over 8 to 25	48.26	1.53
Over 25 to 50	60.40	1.08
Over 50	60.40	1.08
4.8 Kbps		
Over 0 to 4	41.39	2.35
Over 4 to 8	41.39	2.35
Over 8 to 25	48.26	1.53
Over 25 to 50	60.40	1.08
Over 50	60.40	1.08
9.6 Kbps		
Over 0 to 4	48.88	2.51
Over 4 to 8	44.53	1.95
Over 8 to 25	44.53	1.95
Over 25 to 50	59.91	1.36
Over 50	61.98	1.32
56 Kbps		
Over 0 to 4	90.35	5.15
Over 4 to 8	90.35	5.15
Over 8 to 25	97.27	2.30
Over 25 to 50	118.41	1.31
Over 50	118.41	1.31

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.8 Digital Data Service (Cont'd)

(C) Pricing Plans (Cont'd)

Plan 2

Channel Mileage

	Per Month	
3 Year Plan	Fixed	Per Mile
2.4 Kbps		
Over 0 to 4	$ 39.09	$ 2.07
Over 4 to 8	39.09	2.07
Over 8 to 25	45.58	1.35
Over 25 to 50	57.04	.95
Over 50	57.04	.95
4.8 Kbps		
Over 0 to 4	39.09	2.07
Over 4 to 8	39.09	2.07
Over 8 to 25	45.58	1.35
Over 25 to 50	57.04	.95
Over 50	57.04	.95
9.6 Kbps		
Over 0 to 4	46.24	2.44
Over 4 to 8	42.12	1.90
Over 8 to 25	42.12	1.90
Over 25 to 50	56.67	1.32
Over 50	58.63	1.29
56 Kbps		
Over 0 to 4	85.47	5.01
Over 4 to 8	85.47	5.01
Over 8 to 25	92.02	2.24
Over 25 to 50	112.01	1.27
Over 50	112.01	1.27
5 Year Plan		
2.4 Kbps		
Over 0 to 4	36.79	1.93
Over 4 to 8	36.79	1.93
Over 8 to 25	42.90	1.26
Over 25 to 50	53.69	.89
Over 50	53.69	.89

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.8 Digital Data Service (Cont'd)

(C) Pricing Plans (Cont'd)

Plan 3 (Cont'd)

Channel Terminations (Cont'd)

5 Year Plan (Cont'd)	Per Month Fixed	Per Mile
4.8 Kbps		
Over 0 to 4	$ 36.79	$ 1.93
Over 4 to 8	36.79	1.93
Over 8 to 25	42.90	1.26
Over 25 to 50	53.69	.89
Over 50	53.69	.89
9.6 Kbps		
Over 0 to 4	44.91	2.37
Over 4 to 8	40.92	1.84
Over 8 to 25	40.92	1.84
Over 25 to 50	55.05	1.28
Over 50	56.96	1.25
56 Kbps		
Over 0 to 4	83.03	4.86
Over 4 to 8	83.03	4.86
Over 8 to 25	89.39	2.18
Over 25 to 50	108.81	1.23
Over 50	108.81	1.23

Plan 3

Channel Terminations	Per Month
2 Year Plan	
2.4 Kbps	$ 42.80
4.8 Kbps	42.80
9.6 Kbps	45.17
56 Kbps	67.82
3 Year Plan	
2.4 Kbps	40.42
4.8 Kbps	40.42
9.6 Kbps	43.98
56 Kbps	66.04
5 Year Plan	
2.4 Kbps	38.04
4.8 Kbps	38.04
9.6 Kbps	42.80
56 Kbps	64.25

SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.8 Digital Data Service (Cont'd)

(D) Optional Features and Functions	Per Month
(1) Bridging, per port	$ 10.17
(2) Loop Transfer Arrangement(Key-activated* or Dial-up†), per four-port arrangement#	29.15

7.5.9 High Capacity Service

(A) Channel Termination, per point of termination	Nonrecurring Charge	Per Month
1.544 Mbps	$505.89	$326.70
3.152 Mbps	ICB	ICB
6.312 Mbps	ICB	ICB
44.736 Mbps	ICB	ICB
274.176 Mbps	ICB	ICB

(B) Channel Mileage, per mileage band	Per Month	
	Fixed	Per Mile
(1) 64 kbps		
Mileage Bands		
0**	$ 14.50	None
Over 0 to 4	16.12	$ 2.18
Over 4 to 8	18.73	1.66
Over 8 to 25	22.30	1.97
Over 25 to 50	22.30	1.97
Over 50	22.30	1.97

* The key-activated control channel is rated as a Metallic Channel Termination(use USOC T6EME in lieu of T6ECS) and Channel Mileage, if applicable(use USOC 1L5MX in lieu of 1L5XX).

† The Dial-up option requires the customer to purchase the Controller Arrangement (USOC XTDDU) from 13.3.7 following.

\# An additional Channel Termination Charge will apply whenever a spare channel is configured as a leg to the customer's premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.

** Applies to through connection of 2.4, 4.8, 9.6, 56.0 and 64 kbps.

SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(B) Channel Mileage, per mileage band (Cont'd)	Per Month Fixed	Per Month Per Mile
(2) 1.544 Mbps		
Mileage Bands		
0	None	None
Over 0 to 4	$ 37.49	$36.30
Over 4 to 8	97.60	38.32
Over 8 to 25	179.75	42.35
Over 25 to 50	179.75	45.30
Over 50	179.75	45.30
(3) 3.152 Mbps		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB
(4) 6.312 Mbps		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB
(5) 44.736 Mbps		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB

SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(B) Channel Mileage, per mileage band (Cont'd)

	Per Month	
	Fixed	Per Mile
(6) 274.176 Mbps		
Mileage Bands		
0	None	None
Over 0 to 4	ICB	ICB
Over 4 to 8	ICB	ICB
Over 8 to 25	ICB	ICB
Over 25 to 50	ICB	ICB
Over 50	ICB	ICB

(C) Pricing Plans - 1.544 Mbps

(1) Channel Terminations	Per Month
Plan 1	
2 Year	$256.50
3 Year	253.13
5 Year	236.25
Plan 2	
2 Year	253.13
3 Year	236.25
5 Year	219.38
Plan 3	
2 Year	236.25
3 Year	219.38
5 Year	202.50
Plan 4	
2 Year	219.38
3 Year	202.50
5 Year	185.63
Plan 5	
2 Year	202.50
3 Year	185.63
5 Year	168.75

SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(C) Pricing Plans - 1.544 Mbps (Cont'd)

(2) Channel Mileage

Plan 1	Per Month	
2 Year	Fixed	Per Mile
Mileage Bands		
Over 0 to 4	$ 29.43	$ 28.50
Over 4 to 8	76.63	30.09
Over 8 to 25	141.12	33.25
Over 25 to 50	141.12	35.57
Over 50	141.12	35.57
3 Year		
Mileage Bands		
Over 0 to 4	29.04	28.13
Over 4 to 8	75.62	29.69
Over 8 to 25	39.27	32.81
Over 25 to 50	139.27	35.10
Over 50	139.27	35.10
5 Year		
Mileage Bands		
Over 0 to 4	27.11	26.25
Over 4 to 8	70.58	27.71
Over 8 to 25	129.98	30.63
Over 25 to 50	129.98	32.76
Over 50	129.98	32.76
Plan 2		
2 Year		
Mileage Bands		
Over 0 to 4	29.04	28.13
Over 4 to 8	75.62	29.69
Over 8 to 25	139.12	32.81
Over 25 to 50	139.12	35.10
Over 50	139.12	35.10
3 Year		
Mileage Bands		
Over 0 to 4	27.11	26.25
Over 4 to 8	70.58	27.71
Over 8 to 25	129.98	30.63
Over 25 to 50	129.98	32.76
Over 50	129.98	32.76

SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(C) Pricing Plans - 1.544 Mbps (Cont'd)

(2) Channel Mileage (Cont'd)	Per Month Fixed	Per Month Per Mile
Plan 2 (Cont'd)		
5 Year		
Mileage Bands		
Over 0 to 4	$ 25.17	$ 24.38
Over 4 to 8	65.54	25.73
Over 8 to 25	120.70	28.44
Over 25 to 50	120.70	30.42
Over 50	120.70	30.42
Plan 3		
2 Year		
Mileage Bands		
Over 0 to 4	27.11	26.25
Over 4 to 8	70.58	27.71
Over 8 to 25	129.98	30.63
Over 25 to 50	129.98	32.76
Over 50	129.98	32.76
3 Year		
Mileage Bands		
Over 0 to 4	25.17	24.38
Over 4 to 8	65.54	25.73
Over 8 to 25	120.70	28.44
Over 25 to 50	120.70	30.42
Over 50	120.70	30.42
5 Year		
Mileage Bands		
Over 0 to 4	23.24	22.50
Over 4 to 8	60.50	23.75
Over 8 to 25	111.41	26.25
Over 25 to 50	111.41	28.08
Over 50	111.41	28.08
Plan 4		
2 Year		
Mileage Bands		
Over 0 to 4	25.17	24.38
Over 4 to 8	65.54	25.73
Over 8 to 25	120.70	28.44
Over 25 to 50	120.70	30.42
Over 50	120.70	30.42

SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(C) Pricing Plans - 1.544 Mbps (Cont'd)

(2) Channel Mileage (Cont'd)	Per Month Fixed	Per Month Per Mile
Plan 4 (Cont'd)		
3 Year		
Mileage Bands		
Over 0 to 4	$ 23.24	$ 22.50
Over 4 to 8	60.50	23.75
Over 8 to 25	111.41	26.25
Over 25 to 50	111.41	28.08
Over 50	111.41	28.08
5 Year		
Mileage Bands		
Over 0 to 4	21.30	20.63
Over 4 to 8	55.45	21.77
Over 8 to 25	102.13	24.06
Over 25 to 50	102.13	25.74
Over 50	102.13	25.74
Plan 5		
2 Year		
Mileage Bands		
Over 0 to 4	23.24	22.50
Over 4 to 8	60.50	23.75
Over 8 to 25	111.41	26.25
Over 25 to 50	111.41	28.08
Over 50	111.41	28.08
3 Year		
Mileage Bands		
Over 0 to 4	21.30	20.63
Over 4 to 8	55.45	21.77
Over 8 to 25	102.13	24.06
Over 25 to 50	102.13	25.74
Over 50	102.13	25.74
5 Year		
Mileage Bands		
Over 0 to 4	9.36	18.75
Over 4 to 8	50.41	19.79
Over 8 to 25	92.84	21.88
Over 25 to 50	92.84	23.40
Over 50	92.84	23.40

SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions

	Per Month
(1) Multiplexing	
DS4 to DS1, per arrangement	ICB
DS3 to DS1, per arrangement	ICB
DS2 to DS1, per arrangement	ICB
DS1C to DS1, per arrangement	ICB
DS1 to Voice*, per arrangement	278.61
DS1 TO DS0, per arrangement	469.30
DSO to Subrates, per arrangement	
Up to 20 2.4 kbps services	260.20
Up to 10 4.8 kbps services	124.73
Up to 5 9.6 kbps services	97.33
(2) Automatic Loop Transfer, per arrangement†	330.99
(3) Transfer Arrangement, key-activated# or dial-up**, per four-port arrangement including control channel termination††	155.10

7.5.10 Special Access Surcharge

Per voice equivalent channel	25.00

* A channel of this DS1 to the hub can be used for a Digital Data service.

† An additional Channel Termination Charge will apply whenever the spare line is provided as a leg to the customer premises.

The key-activated control channel is rated as a Metallic Channel Termination, and Channel Mileage, if applicable.

** The dial-up option requires the customer to purchase the Controller Arrangement as specified in 13.3.7 following

†† An additional Channel Termination Charge will apply whenever a spare channel is configured as a leg to the customer's premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.

BILLING AND COLLECTION SERVICES

A. GENERAL

The Telephone Company will provide the following Billing and Collection Services:

(A) Recording Service
(B)
(C) Billing Analysis Service
(D)
(G) Verizon Card Billing Service
(H) Verizon Card Billing Data Service

B. REGULATIONS

Billing and Collection Services will be provided to Interexchange Carriers, hereinafter referred to as customers, at regulations, rates and charges specified in this tariff. Recording Service, ordered by customers for periods of three years or longer, will be provided at Individual Case Basis (ICB) rates, and ICB regulations will apply if appropriate.

Program Development

The basic per-hour rate and the premium per-hour rate for program development is for the use of each Telephone Company employee's time for each hour spent on behalf of the customer.

The Telephone Company will keep a count of the hours and fraction thereof used by all other Telephone Company personnel to provide program development and implementation support data and will bill the customer in accordance with these records. The time for each service ordered will be summed and then rounded to the nearest hour, except that when the total is less than one hour, one hour will be used to determine the charges.

Audit Provision for Recording Service

Upon reasonable written notice by the customer to the Telephone Company, the customer shall have the right through its authorized representative to examine and audit, during normal business hours and at reasonable intervals as determined by the Telephone Company, all such records and accounts as may under recognized accounting practices contain information bearing upon amounts which may be payable to the customer. Adjustment shall be made by the proper party to compensate for any errors or omissions disclosed by such examination or audit. Neither such right to examine and audit nor the right to receive such adjustment shall be affected by any statement to the contrary, appearing on checks or otherwise, unless such statement expressly waiving such right appears in a letter signed by the authorized representative of the party having such right and delivered to the other party.

BILLING AND COLLECTION SERVICES

B. REGULATIONS (Cont'd)

All information received or reviewed by the customer or its authorized representative is to be considered confidential and is not to be distributed, provided or disclosed in any form to anyone not involved in the audit, nor is such information to be used for any other purpose.

Liability of the Telephone Company

Notwithstanding 2.1.3 preceding, the Telephone Company liability for Billing and Collection Services is as follows:

1. If customer data which was to be used by the Telephone Company to bill customer charges is not available because the Telephone Company has lost or damaged the data, or incurred recording or billing system outages, the Telephone Company will estimate the volume of lost customer data and associated revenue based on previously known values. However, if the customer data was provided by the customer, the customer will be requested to resupply the data. If the customer cannot resupply the data the Telephone Company will then complete an estimate as described preceding. In any event, the extent of the Telephone Company's liability for damages shall be limited to the granting of a corresponding credit adjustment to the customer amounts due to account for the unbillable revenue.

2. When the Telephone Company is notified that, due to error or omission, incomplete data has been provided to a customer, the Telephone Company will make every reasonable effort to locate and/or recover the data and provide new data to the customer at no additional charge. Such request to recover the data must be made within 30 days from the date the details were initially made available to the customer. If the data cannot be recovered, the extent of the Telephone Company's liability for damages shall be limited as specified in 1. preceding.

3. In the absence of gross negligence or willful misconduct, no liability for damages to the customer, other person or entity other than that as specified in 1. and 2. preceding shall attach to the Telephone Company.

BILLING AND COLLECTION SERVICES - BILLING ANALYSIS SERVICE

A. GENERAL

At the request of a customer, the Telephone Company upon reasonable notice and with reasonable effort, will provide Billing Analysis Service for subject line identification, detection, investigation and deterrence of billing evasion activities.

The term "billing evasion activities" used herein denotes Message Billing Abuse and/or Network Abuse. Such abuse is the use of an access line (e.g., end user line or trunk, pay telephone line or other access line or trunk provided by the Telephone Company) where there is intent to circumvent or evade the proper charges in whole or in part for use of telecommunications services over the access line, or to conceal the points of origin or termination of telecommunications services.

Such activities include bypass or circumvention of Telephone Company and/or customer billing equipment, unauthorized use of Telephone Company and customer service offerings, and unauthorized use of Telephone Company facilities.

General Description

Subject line identification is a procedure to identify a telephone line suspected of originating fraudulent activity on a customer's (Interexchange Carrier's) network to evade billing responsibility. Subject line identification is available only in ESS offices equipped to provide call trace information to identify the telephone number originating suspicious calling patterns. Further investigation may be requested e.g., Documentation Scan.

Detection is the provision of equipment by the Telephone Company to identify and collect information on network abuse and/or message billing abuse. Such equipment may be located in Telephone Company premises or offices or may be attached to access lines.

Investigation is the provision of investigative services to collect evidence to document that billing evasion activities are occurring, prepare reports, preserve evidence and supply expert witness analysis and testimony. Investigation also includes provision of services to coordinate the investigative activities between Exchange Telephone Companies and/or law enforcement agencies.

Deterrence is the contacting and interviewing of parties identified in billing evasion activities, supplying deterrent literature, educational programs and publicity assistance in publicizing billing evasion deterrence.

BILLING AND COLLECTION SERVICES -
BILLING ANALYSIS SERVICE

B. REGULATIONS

1. Undertaking of the Telephone Company

a. When Billing Analysis Service is ordered under a Special Order by an authorized security representative of the customer, the Telephone Company will provide any one or all of the services as set forth in b. through f. following at rates and charges as set forth in C. following.

b. Detection Service

(1) Network Abuse Detection Service will be provided at any central office switch equipped to recognize and record irregular key pulse and multifrequency signals upon receipt of a special order from a customer specifying the central office(s) where detection service is requested.

(a) Reports of detection service results will be provided on an office-by-office basis at the request of the authorized security representative of the customer. In offices equipped with the SIGI (Signaling Irregularity Detection Circuit) feature, there is a continuous scan for current signal irregularities. A weekly report of any signaling irregularities will be furnished for any of these offices. In offices without the SIGI feature, detection of signal irregularities can be provided utilizing portable equipment, if available. This service will provide reports of signaling irregularities on toll access trunks for the previous 30 days (30-day report).

(b) The detection service reports as set forth in (a) preceding will include, for a signaling irregularity observed, the following if available: 1) the calling NPA and telephone number (i.e., NXX-XXXX), 2) the called number (i.e., NPA and telephone number recorded by Telephone Company billing equipment, 3) signaling irregularity data, 4) the holding time of the call, and 5) the date of the call. The report will be provided as a paper printout or microfiche at the discretion of The Telephone Company, and sent to the authorized security representative of the customer by registered first class U.S. Mail service. However, an authorized security representative of the customer may pick up the report at a location designated by the Telephone Company. The 30-day report will be analyzed on not less than a weekly basis and will be available for mailing or pickup 2 weeks after the end of the 30-day period. Results of the continuous scan will be provided to the authorized security representative of the customer by a written report and/or a telephonic report within six working days after the end of a weekly scan.

BILLING AND COLLECTION SERVICES -
BILLING ANALYSIS SERVICE

B. REGULATIONS

1. Undertaking of the Telephone Company (Cont'd)

b. Detection Service (Cont'd)

(1) (Cont'd)

(c) A detection and documentation scan per line will be provided when an authorized security representative of the customer provides a written request for such a scan. This request must include the nature of the suspected billing evasion activities and any evidence supporting the case. The maximum duration of this scan shall not exceed 30 days. The Telephone Company reserves the right to deny this service in cases where in its judgment "probable cause" does not exist. The Telephone Company will notify the customer if there is reason to suspect billing evasion. Specific scan documents and any associated source material will not be provided until the Telephone Company is requested to do so by subpoena or lawful demands.

(d) Specific scan details as set forth in (c) preceding will include if available:

(1) Calling NPA - NXX-XXXX
(2) The number of calls frequently made from the calling number
(3) The period of time scan
(4) The authorization code if applicable
(5) Called NPA - NXX-XXXX
(6) Indications of type of fraud methods used
(7) Holding time of calls
(8) Date and time of calls

(2) Message Billing Abuse

(a) Detection and documentation scan for Message Billing Abuse will be provided as described in (1)(c) above.

(b) Results of detection and documentation scan for Message Billing Abuse will be provided as described in (1)(d) above.

(3) Analysis of Data/Subject Identification

This element shall apply to the analysis of data/subject location identification of suspected billing evasion activities.

c. Investigative Service will be provided by authorized Telephone Company Security personnel upon receipt of a Special Order from an authorized security representative of the customer specifying the line or lines or

BILLING AND COLLECTION SERVICES -
BILLING ANALYSIS SERVICE

B. REGULATIONS

1. Undertaking of the Telephone Company (Cont'd)

(c) (Cont'd)

billing evasion activity (i.e., message billing abuse and/or network abuse) to be investigated. The services provided include the provision of an identification report, collection of evidence, provision of a detection and documentation scan, preparation of an affidavit and prosecutive summary, preservation of evidence collected, assistance to law enforcement agencies and provision of expert witness analysis and/or testimony, the coordination of billing evasion investigative services and arrangement for restitution as appropriate.

(1) Provision of suspect identification information is the collection by Telephone Company personnel of billing information, party name, party address, service configuration, if applicable, and the oral presentation of this information to the authorized security representative of the customer.

(2) Collection of evidence is the gathering of information or data pertinent to billing evasion activity specified by the authorized security representative of the customer. Collection of this evidence includes but is not limited to the contacting and interviewing of suspects/witnesses associated with the billing evasion activity.

(3) Preparation of an affidavit and prosecutive summary is the written documentation of the evidence collected by the Telephone Company personnel who performed such activities.

(4) Preservation of evidence is the placement of the collected evidence in a secure location under the control of Telephone Company Security for a period of up to two years. Such preservation of evidence will be continued beyond two years by the Telephone Company when mandated by law, requested by appropriate law enforcement agencies or the authorized security representative of the customer.

(5) Assistance to law enforcement is the accompanying of duly authorized law enforcement personnel to a location where billing evasion activities have been determined to exist in order to identify billing evasion activity devices or materials. The Telephone Company personnel will provide such assistance to law enforcement personnel only after law enforcement involvement has been approved by the customer, or under services as set forth in (9) following. If such assistance is required at locations outside the operating territory of the Telephone Company involved, any out of pocket payments for travel and/or other expenses of Telephone Company personnel will be billed to the customer, except to the extent that such expenses are paid by the judicial system.

BILLING AND COLLECTION SERVICES -
BILLING ANALYSIS SERVICE

B. REGULATIONS

1. Undertaking of the Telephone Company (Cont'd)

(c) (Cont'd)

(6) Provision of expert witness analysis is the review, study and other technical support activities provided by Telephone Company experts to analyze and/or document whether devices and materials associated with an investigation furnished by the authorized security representative of the customer, collected for an investigation by the Telephone Company or under services as set forth in (9) following, operate, perform or contain billing evasion activities. A written analysis report will be provided upon request to the authorized security representative of the customer. The expert will be selected by the Telephone Company.

(7) Provision of expert witness testimony is the preparation of testimony and the submission of such testimony in association with an investigation. The expert witness will be selected by the Telephone Company.

(8) Coordination of billing evasion investigative services between Telephone Companies is the referral of investigative information to other Telephone Company security personnel, provision of billing evasion information to other Telephone Company security personnel, the collection of information from other Telephone Company security personnel, and the tracking, collecting and reporting of the results of such investigations to the authorized security representative of the customer.

(9) Coordination of billing evasion investigative activities of participating law enforcement agencies is the provision of billing evasion information to the law enforcement agencies, the collection of billing evasion information from the law enforcement agencies and the tracking, collecting and reporting of the results of such participation to the authorized security representative of the customer. This coordination will be provided only upon receipt of written authorization from the authorized security representative of the customer. Legal process may be required to comply with the above.

(10) Any out of pocket payments for travel and/or other expenses of Telephone Company personnel will be billed to the customer, except to the extent that such expenses are paid by the judicial system.

BILLING AND COLLECTION SERVICES -
BILLING ANALYSIS SERVICE

B. REGULATIONS

1. Undertaking of the Telephone Company (Cont'd)

d. Deterrence services will be provided at any location in the operating territory of the Telephone Company that Telephone Company security personnel can safely and legally enter. Deterrence services will be provided, at the written request of the authorized security representative of the customer. Telephone notice may initiate the provision of service if written authorization is forthcoming. Deterrence services will be provided by the Telephone Company when billing evasion activity is found to warrant such actions. Deterrence service includes the contacting and interviewing of parties identified by the Telephone Company as being involved in billing evasion activities, supplying deterrent literature, educational programs, publicity assistance for publicizing billing evasion activity deterrence, and review of customer billing evasion deterrence control programs.

(1) Contacting and interviewing of parties is the written or verbal notification to, or a face-to-face discussion with, a party or parties by Telephone Company security personnel in order to deter further billing evasion activities. Contacting and interviewing is provided at locations identified by law enforcement agencies, the customer or the Telephone Company.

(2) Publicity assistance is the provision of information and personnel to aid in publicizing billing evasion activity deterrence. The disseminated information will be mutually agreed upon by the Telephone Company and the customer. The Telephone Company will select the personnel and media, if any, to provide this service.

(3) Review of customer billing evasion deterrence control programs and related activities is advice to and/or training of customer personnel on billing evasion deterrence and preventive controls and the development of billing evasion deterrence and preventive control programs for the customer.

(4) Any out of pocket payments for travel and/or other expenses of Telephone Company personnel will be billed to the customer, except to the extent that such expenses are paid by the judicial system.

e. The Telephone Company will, at the request of the customer, provide analysis of data/subject identification, investigative and deterrent service on a premium time basis. When such services are provided on a premium time basis, the premium time charges as set forth in C. following apply.

BILLING AND COLLECTION SERVICES -
BILLING ANALYSIS SERVICE

B. REGULATIONS

1. Undertaking of the Telephone Company (Cont'd)

f. Subject Line Identification

(1) The Telephone Company will provide subject line identification upon verbal request from an authorized representative of the customer to an authorized Telephone Company security representative subject to available personnel and equipment. Such verbal request must contain sufficient detail for the Telephone Company to initiate an investigation.

(2) The Telephone Company will terminate a subject line identification if it is determined that the call has been identified as originating through a customer who is another Interexchange Carrier, or if definitive results cannot be obtained in one hour. The charges specified in C. following apply in all such cases.

(3) The Telephone Company will normally process and complete each subject line identification request within three hours after the request is made.

(4) The Telephone Company will provide a verbal confirmation of the results of each subject line identification request to the authorized representative of the customer no later than the business day following the day such request is made.

(5) Upon receipt of a Subject Line Identification Request Form from the customer verifying the verbal request, the Telephone Company will furnish written confirmation of the Subject Line Identification results.

2. Obligations of the Customer

a. The authorized security representative of the customer, except as specified in k. following, shall order all Billing Analysis Services the customer wishes to receive under a Special Order. A Special Order is used to establish or change the service.

When Billing Analysis Service is initially ordered, the customer may order the service on a Case by Case Basis or on a yearly basis with a predetermined level of activity per month for Investigative/Deterrence service. The minimum predetermined level of activity per month for Investigative/Deterrence service is forty-eight (48) hours.

BILLING AND COLLECTION SERVICES -
BILLING ANALYSIS SERVICE

B. REGULATIONS

2. Obligations of the Customer (Cont'd)

a. (Cont'd)

When the customer orders Billing Analysis Service on a yearly basis, the customer must furnish the Telephone Company with the designated minimum level of activity they wish to purchase, as shown in C.2.b. following. Not later than six months prior to the end of the order period the customer shall notify the Telephone Company in writing if the service is to be discontinued or modified at the end of the period. If notice is not received from the customer, the Telephone Company will automatically extend the service for another year, using the most recent minimum level of activity purchased, at the rates specified in C.2.b. The customer will be notified by the Telephone Company when such an extension is made.

b. With each order, the customer shall designate and identify the authorized security representative who will be responsible to protect the information and to whom the Billing Analysis Service information will be provided. The customer shall assure and take every effort to make sure the Billing Analysis Service information is provided to and used only by authorized personnel involved in billing evasion activity matters.

c. When Billing Analysis Service Investigation is ordered, the authorized security representative of the customer shall furnish all known details of the billing evasion activities, including the access lines, parties or messages to be investigated, and shall furnish all necessary end user information they possess to the Telephone Company security personnel. Such known details shall be sufficient to reasonably warrant a Billing Analysis Service investigation by the Telephone Company. The specification of the access line, party or message to be investigated shall be in writing by the authorized security representative of the customer.

d. When law enforcement agencies are to be brought into the investigation, the authorized security representative of the customer shall secure their participation or authorize the Telephone Company in writing to obtain and coordinate such law enforcement agency participation.

e. When evidence collected by the Telephone Company is to be produced in connection with a judicial proceeding, the customer shall notify the Telephone Company of such a requirement in a timely manner.

f. All inquiries from the customer's end user concerning services provided under this tariff are to be handled by the customer. Any questions to the Telephone Company shall be made by the authorized security representative of the customer.

BILLING AND COLLECTION SERVICES -
BILLING ANALYSIS SERVICE

B. REGULATIONS

2. Obligations of the Customer (Cont'd)

g. Except as set forth in 1.d.(2) preceding, publicizing of actions resulting from services provided under this tariff shall be the responsibility of the customer. The customer shall not publicize that the Telephone Company assisted the customer unless the customer has written permission to do so from the Telephone Company.

h. When the authorized security representative of the customer orders, with probable cause as determined by the Telephone Company, detection service or a detection and documentation scan of an individual line, it shall specify in writing the offices, lines or parties to be included in the scanning and reports the Telephone Company will provide.

i. When provision of expert witness analysis is ordered by the customer, the customer shall be responsible for furnishing the evidence to be analyzed unless the services as set forth in 1.c.(9) preceding are ordered by the customer.

j. When provision of expert witness testimony is ordered by the customer, the customer shall include the name, if any, of the Telephone Company expert desired and when and where the testimony is needed.

k. The customer will provide a list of customer representatives other than authorized security representatives having the authority to make subject line identification requests.

l. When subject line identification is requested by the customer, a completed Subject Line Identification Request Form, including the customer's evidence for suspecting billing evasion activities, will be transmitted to the Telephone Company within two business days following such verbal request.

3. Payment Arrangements

a. Minimum Periods and Minimum Charges

The minimum period for which Billing Analysis detection service continuous scanning is provided and for which charges apply is one month.

The minimum period for Billing Analysis Service for customers who subscribe to a predetermined level of activity per month shall be twelve (12) months.

The minimum monthly charges for customers who subscribe to a predetermined level of activity per month will be based on the level of activity ordered as described in C.2.b. following.

BILLING AND COLLECTION SERVICES -
BILLING ANALYSIS SERVICE

B. REGULATIONS

3. Payment Arrangements (Cont'd)

a. Minimum Periods and Minimum Charges (Cont'd)

If service is discontinued prior to the end of the period ordered, the monthly charges will apply for the remaining months.

b. Cancellation of A Special Order

A customer may cancel a Special Order for Billing Analysis Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the authorized security representative of the customer that the Special Order is to be cancelled. The order date is defined as the date the verbal notice is received. The verbal notice must be followed by written confirmation within 10 days. The service date for Billing Analysis Service is the date the Telephone Company and the customer mutually agree the service is to start.

When a customer cancels a Special Order for Billing Analysis Service after the order date but prior to the start of service, a charge as listed following shall apply.

(1) For detection service, the per-report charge for each 30-day report ordered, the per-month charge for each office where a continuous scan is ordered and the per-occurrence charge for each documentation detection ordered.

(2) For investigative service, two times the appropriate hourly charge for the service ordered.

(3) For deterrence service, two times the appropriate hourly charge for the service ordered.

c. Changes to Special Orders

Customer requested changes to a pending Special Order for Billing Analysis Service will be undertaken if they can be accommodated by the Telephone Company. However, all changes to pending orders for detection service will be considered as a discontinuance of the pending order and the placement of a new order and appropriate charges will apply. Any additional time required on the part of the Telephone Company personnel will be billed to the customer at the appropriate hourly charges.

BILLING AND COLLECTION SERVICES -
BILLING ANALYSIS SERVICE

B. REGULATIONS

4. Rate Regulations

a. The charge per report for the 30-day report, as set forth in C.1. following, applies for each report provided to a customer even though no signaling irregularities are found.

b. The charge per office per month for continuous scan as set forth in C.1. following applies for each month of service even though no signaling irregularities are found.

c. The per-hour rate for analysis of data, investigative service and/or deterrence service is for the use of one hour of one Telephone Company security person's time.

The customer may order a predetermined level of activity they will purchase each month as specified in C.2.6. following. The predetermined level of activity will reflect a total of investigative/ Deterrence hours. The purchase of a predetermined level of activity entitles the customer to purchase any amount of Analysis of Data/ Subject Identification at the rate associated with the level of activity ordered for Investigative/Deterrence service as specified in C.2.6. following. The predetermined level of activity purchased will determine the hourly charges for all hours incurred. If the customer does not subscribe to a predetermined level of activity, the customer will be billed the Case by Case hourly rate.

A minimum payment will be applicable when the actual level of activity is less than the predetermined monthly level. The minimum payment will equal the customer's predetermined minimum hours times the corresponding Investigative/Deterrence rate as specified in C.

d. The Telephone Company will keep a count of the hours and fraction thereof used by Telephone Company personnel to provide Investigative/Deterrence service and Analysis of Data/Subject Identification service separately and will bill the customer in accordance with these records. The hours for each service ordered will be summed and then rounded to the nearest hour, except that when the total is less than one hour, one hour will be used to determine charges.

e. Premium time is for all hours of work performed outside the Telephone Company's normal work schedule and/or which requires additions to the work force.

f. The Billing Analysis Service Special Order Charge applies for each Special Order accepted by the Telephone Company to establish or change any Billing Analysis Service.

BILLING AND COLLECTION SERVICES - BILLING ANALYSIS SERVICE

C. RATES

1. Detection Service

	Nonrecurring Charges
30-Day Report per office, per report	$1,500.00
Continuous Scan per office (SIGI), per month scanned	150.00
Documentation Scan, per line	500.00
Analysis of Data/Subject Identification, Case by Case, per hour* of analysis	85.00

2. Investigative/Deterrence Service

a. Case by Case, per hour*	115.00

b. Predetermined Activity Time

Investigative/ Deterrence Service, per hour*†	Per Month Per Hour Band 48-143	144-287	288-574	575-764	765-
	$114.00	$113.00	$111.00	$108.00	$105.00
Analysis of Data/ Subject Identification, per hour, per Preselected Band	84.00	83.00	81.00	78.00	75.00

	Nonrecurring Charges
3. Special Order	$ 20.00

4. Subject Line Identification

The rate per subject line identification request is as follows:

Monday - Friday except Holidays	
(8:00 a.m. - 4:30 p.m.)	243.00
(Other hours)	425.00
Weekends and Holidays	
(24 hours)	425.00

* Premium time rates are two times the per hour rate.

† Must order minimum of 48 hours.

DIRECTORY ASSISTANCE SERVICE

The Telephone Company will provide Directory Assistance (DA) Service to customers from Directory Assistance Service locations (DA location).

9.1 General Description

DA Service provides Directory Access Service to DA locations, use of DA access equipment, and use of DA operators to provide telephone numbers.

9.2 Undertaking of the Telephone Company

(A) A Telephone Company DA operator, when furnished a name and locality, will provide or attempt to provide the telephone number listed in the Telephone Company DA records associated with the name given at the rates and charges as set forth in 9.6 following. The Telephone Company's contact with the customer's end user shall be limited to that effort necessary to process a customer's end user's request for a telephone number; and the Telephone Company will not transfer, forward or redial a customer's end user call to any other location for any purpose other than provision of DA Service.

(B) A maximum of two requests for telephone numbers will be accepted per call to the DA operator. A telephone number which is not listed in DA records will not be available to the customer's end user.

(C) The Telephone Company will specify the DA location which provides the DA Service for each numbering plan area code (NPA). When it becomes necessary, as determined by the Telephone Company, to change a DA location, the Telephone Company will notify the involved customers six months prior to the change. For such changes, the regulations as set forth in Section 2.1.7 preceding apply.

(D) When DA Service is ordered, Directory Access Service will be provided between the customer premises and the DA location by the Telephone Company at rates and charges as set forth in 9.6 following, as follows.

(1) General

Each Directory Access Service will consist of the following:

An Interface Group equipped with an available Premises Interface code at the customer's location

Directory Transport between the location of the ordering customer and the DA location.

DIRECTORY ASSISTANCE SERVICE

9.2 Undertaking of the Telephone Company

(D) (Cont'd)

(1) General (Cont'd)

When required by the Telephone Company, a separate Directory Access Service trunk group will be provided for DA Service for each NPA. Separate trunk groups will be required when the Telephone Company notifies the customer that the mechanized search of its data base and its mechanized operator practices require a mechanized identification of the NPA code for which the customer's end user desires DA information.

Further, when an access tandem is available and is provided, the Directory Access Service will be provided, at Telephone Company choice, either as a separate Directory Access Service trunk group or in combination with Feature Group B or D Switched Access Service.

(2) Interface Group and Premises Interface Code

All Interface Groups as set forth in Section 6.1.3(B)(2) preceding are available for Directory Access Service. When only Directory Access Service is provided, only the following Premises Interface Codes are available.

4DS9-15	6EA2-E	4RV2-0
4DS9-31	6EA2-M	4AH5-B
4DS0-63	4SF3	4AH6-C
4DS6-44	2RV3-0	4AH6-D
4DS6-27		

Such Premises Interface Codes are described in Section 6.1.3(B)(2)(K) preceding. When Directory Access Service is combined with Feature Group D Switched Access Service, the Premises Interface Code for the combination will be the available Premises Interface Code provided for the Feature Group B or D Switched Access Service ordered by the customer. Except as set forth in 9.4(A) following, Interface Groups and Premises Interface Codes provided under a Special Order for Directory Access Service are subject to the order conditions as set forth in Section 5 preceding. For purposes of applying the order regulations, a DA location is considered to be a customer end user serving wire center.

DIRECTORY ASSISTANCE SERVICE

9.2 Undertaking of the Telephone Company

(D) (Cont'd)

(3) Directory Transport

Directory Transport provides the transmission facilities and transport termination between the location of the ordering customer and the DA location. For purposes of determining Directory Transport mileage, distance will be measured from the wire center that normally serves the customer premises to the DA location(s).

Directory Transport is a two-way voice frequency transmission path composed of facilities determined by the Telephone Company. The two-way voice frequency path transports calls in the terminating direction (from the premises of the ordering customer to the DA location). The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency band width of approximately 300 to 3000 Hz.

The Telephone Company will determine whether the Directory Access Service is to be routed directly to a DA location or through an access tandem switch appropriately equipped for DA measurement and served by DA trunks to the DA location when such an access tandem switch is available. The combination of Feature Group B, C or D Switched Access Service with DA service will only be provided at such available and appropriately equipped access tandem switches. If the customer desires the traffic routing to be other than that selected by the Telephone Company, it may request a cooperative effort to determine if customer specified traffic routing can be used in lieu of the Telephone Company selected traffic routing.

When Directory Transport is provided using a direct route to the DA location, no address signaling is provided. When Directory Transport is provided with the use of an access tandem switch, wink start start-pulsing signaling is provided at the access tandem switch. The customer will be notified by the Telephone Company when access tandem routing is provided and the customer shall address each call to the DA location using NPA + 555 + 1212, or when required by the Telephone Company, 555-1212. Only NPA codes handled by the DA location served by the access tandem switch will be processed.

The number of Directory Transport transmission paths provided is based on the customer's order and is determined by the Telephone Company in a manner similar to Switched Access Service transmission paths as set forth in Section 6.5.5 preceding.

DIRECTORY ASSISTANCE SERVICE

9.2 Undertaking of the Telephone Company

(D) (Cont'd)

(3) Directory Transport (Cont'd)

Directory Transport may, at the option of the customer, be provided for both interstate and intrastate communications. When the customer requests such mixed access, the intrastate Directory Transport charges will be determined by the Telephone Company using the data furnished by the customer as set forth in Section 2.3.10 preceding.

Except as set forth in 9.4(A) following, Directory Transport provided under a Special Order is subject to the order conditions as set forth in Section 5 preceding.

Directory Transport is provided with one of the Local Transport Interface Groups as set forth in Section 6.1.3(B) preceding.

(4) Special Facilities Routing

A customer may request that Directory Access Service be provided via Special Facilities Routing. The regulations, rates and charges for Special Facility Routing (Avoidance, Diversity and Cable-only) are as set forth in Section 11 following.

(5) Design Layout Report

The Telephone Company will provide to the customer the makeup of the facilities and services provided under this section as Directory Access Service. This information will be provided in the form of a Design Layout Report similar to that as set forth in 6.1.4. Design Layout Reports for Directory Access Service will be provided only when specifically requested by the customer. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever the facilities provided for the customer's use are materially changed.

(6) Transmission Specifications

Directory Access Service is provided with either Type A, B or C Transmission Specifications. The specifications associated with the parameters are guaranteed to the DA location, whether routed directly or via an access tandem. Type C Transmission Specification is provided with Interface Group 1 when routed direct to a DA location.

DIRECTORY ASSISTANCE SERVICE

9.2 Undertaking of the Telephone Company

(D) (Cont'd)

(6) Transmission Specifications (Cont'd)

Type B Transmission Specification is provided with Interface Groups 2 through 10 when routed direct to a DA location. Type A Transmission Specification is provided with Interface Groups 2 through 10 when routed via an access tandem switch.

When DA Service is combined with Feature Group D Switched Access Service, Type A Transmission Specification is provided. When DA service is combined with Feature Group B Switched Access Service, Type B Transmission Specification is provided for Interface Groups 2 through 10 and Type C Transmission Specification is provided for Interface Group 1.

Type A, B and C Transmission Specifications Capabilities are set forth in Section 6.4.1 preceding.

(7) Acceptance Testing and Testing Capabilities

The acceptance testing and testing capabilities for Directory Access Service traffic routed through an access tandem are the same as those for the associated Feature Group D end office switching. The acceptance testing for Directory Access Service traffic routed directly to or routed in a separate trunk group through an access tandem to the DA location will be as set forth in 6.1.5 preceding. The testing capabilities for Directory Access Service traffic routed directly to or routed in a separate trunk group through an access tandem to the DA location will be as set forth for cooperative scheduled testing or manual scheduled testing in Section 13 following.

(F) Trunk side switching is provided at the DA Service access location. The DA Service access location will provide trunk answer and disconnect supervisory signaling.

(G) The Telephone Company will distribute the calls received over the Directory Access Services to the DA operators using the DA location access equipment.

(H) In the event that the telephone number is unavailable to the DA operator, no credit applies for the charge for the call to the DA operator. When the DA location or DA operator equipment or terminals are out of service due to a Telephone Company equipment failure or an incorrect number is provided, a credit as set forth in 9.4(H) following will apply.

DIRECTORY ASSISTANCE SERVICE

9.2 Undertaking of the Telephone Company

(I) DA Service may, at the option of the customer, be provided for interstate and intrastate communications. When the customer requests such mixed access, the intrastate DA Service charges will be determined by the Telephone Company using the data furnished by the customer as set forth in 2.3.10 preceding.

9.3 Obligations of the Customer

(A) The customer shall determine and order the busy hour minutes of capacity and interface type of Directory Access Services it needs for DA Service.

(B) When DA Service is initially ordered, the customer shall order the service for at least six months. Thereafter, additional service may be ordered for a minimum of six months. Not later than three months prior to the end of the six-month period, the customer shall notify the Telephone Company if the service is to be discontinued at the end of the six-month period. If no notice is received from the customer, the Telephone Company will automatically extend the service for another six-months and all appropriate charges as set forth in 9.6 following for another six months will apply.

(C) The customer facilities at the premises of the ordering customer shall provide the necessary on-hook and off-hook supervision.

(D) When requested by the Telephone Company, the customer shall order a separate trunk group for DA Service for each NPA. The conditions when the customer will be requested to order a separate trunk group for each NPA are set forth in 9.2(E)(1) preceding.

(E) When the customer bills its end users, the customer shall be responsible for all contacts and arrangements with its end users concerning the provision and maintenance of, and the billing and collecting of charges, for DA services furnished to its end users. When the Telephone Company bills the customer end users at the request of the customer, contacts and arrangements with customer end users concerning the billing and collecting of charges will be as set forth in 8.2 preceding.

(F) The customer understands that DA Operators will respond to only two telephone number requests per call and will not transfer, forward or redial the call to another location for any purpose other than the provision of DA Service.

DIRECTORY ASSISTANCE SERVICE

9.4 Payment Arrangements

(A) Minimum Periods

The minimum period for which DA Service and the Directory Access Service is provided and for which charges apply is six months. A minimum period of six months applies for each additional period of service ordered or extended.

If DA Service is discontinued prior to the end of each six month period, the charges that apply for the remaining months are the nonrecoverable costs. Such costs include 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, rights-of-way and other associated costs less estimated net salvage.

(B) Minimum Monthly Charge

DA service is subject to a minimum monthly charge. The minimum monthly charge consists of the following elements.

The minimum monthly charge for Directory Assistance Service calls is the charge as set forth in 9.6 following for the actual usage for the month.

(C)

(D) Cancellation of a Special Order

A customer may cancel a Special Order for DA Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days.

When a customer cancels a Special Order for DA Service after the order date but prior to the start of service, the appropriate charges as set forth in Section 5 preceding apply for the Directory Access Service cancelled. In addition, a charge equal to any unrecoverable capital costs incurred by the Telephone Company will apply to the customer.

(E) Changes to Special Orders

When a customer requests changes to a pending order for DA Service, such changes will be undertaken if they can be accommodated by the Telephone Company. The appropriate charges as set forth in Section 5 preceding apply for the Directory Access Service changed. In addition, a charge equal to any other costs incurred by the Telephone Company because of the change will apply.

DIRECTORY ASSISTANCE SERVICE

9.4 Payment Arrangements

(F) Moves

A move involves a change in the physical location of the point of termination at the customer premises or of the customer premises. Moves will be treated as set forth in 6.7.4 preceding and all associated nonrecurring charges will apply. Minimum period requirements will be established at the new location as set forth in 6.7.4 preceding. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

(G) DA Service Rearrangements

Nonrecurring charges apply for service rearrangements. Service Rearrangements are as set forth in 6.7.1(C)(2) preceding. The Service Rearrangement Charges are as set forth in 6.7.1(C)(2) for the type of change provided by the Telephone Company.

(H) Credit Allowance for DA Service

(1) When the DA location or DA operator equipment or terminals are out of service due to a Telephone Company equipment failure or an incorrect number is provided and a customer DA call has been answered or forwarded to a DA operator, a credit allowance for a call answered or forwarded to the DA operator equal to the rate for a Directory Assistance Service Call as set forth in 9.6 following plus the rate for a Directory Transport call will be applied to the customer's charges. The rate for a Directory Transport call will be the average of the Directory Transport rates per call as set forth in 9.6 following.

(2) In addition to the credit as set forth in (1) preceding, when a DA operator or DA equipment provides an incorrect number for a call and the customer reports such occurrences to the Telephone Company, a credit allowance for such DA call will apply. The credit will be as set forth in (3) following. When the customer reports such a call and the number requested, the number provided and the reason the number provided is incorrect, the number of calls for which a credit will apply will be developed by the Telephone Company in cooperation with the customer.

(3) When a DA call is not completed due to the failure of Directory Access Service to DA locations, DA access equipment or DA operator activities, a credit allowance for the Switched Access Service portion in the originating LATA of such DA call will apply. When the customer reports such a call and DA number dialed, time of the call and the date of the call, the number of calls for which a credit will apply will be developed by the Telephone Company in cooperation with the customer. The credit will be as set forth following:

DIRECTORY ASSISTANCE SERVICE

9.4 Payment Arrangements (Cont'd)

(H) Credit Allowance for DA Service (Cont'd)

(3) (Cont'd)

a. Credit per call when FGA and/or FGB Switched Access Service is billed using Non-Premium Carrier Common Line rates*

	Credit
January 1, 1986 through August 31, 1986	.0295

b. Credit per call when FGA and/or FGB Switched Access Service is billed using Premium Carrier Common Line rates ..... .0318

c. Credit per call when FGD Switched Access Service is billed using Premium Carrier Common Line rates ..... .0332

(4) Credit allowances for other service interruptions will be provided as set forth in Section 2.4.4 preceding.

9.5 Rate Regulations

(A) The Directory Assistance service call charge, as set forth in 9.6(A) following, applies for each call to DA Service. A call is a call which has been answered by or forwarded to a DA operator. The charge applies whether or not the DA operator provides the requested telephone number. The number of calls answered or forwarded to DA operators will be accumulated by Telephone Company measuring equipment. A credit for the provision of an incorrect telephone number will be applied as set forth in 9.4(H) preceding.

(B) The mileage for Directory Transport is measured from the serving wire center for the premises of the ordering customer to the DA location. Title page notwithstanding, these two wire centers may be in different LATAs. In addition, the premises of the ordering customer must be in the LATA where DA service is requested or in the LATA where the DA location is located. The measurement will be performed as set forth in Section 6.7.9 preceding.

(C) The charge per call for Directory Transport, as set forth in 9.6(B) following, applies for each call to DA service. A call is as set forth in (A) preceding. The number of calls will be accumulated as set forth in (A) preceding.

* Premium Carrier Common Line rates apply to all FGA and/or FGB after August 31, 1986.

DIRECTORY ASSISTANCE SERVICE

9.6 Rates and Charges

(A) Directory Assistance
Service Call, each..... $.25

(B) Directory Access Service

Directory Access Installation Charge	Charges are the same as those set forth in 6.8.1 preceding.

Directory Transport

	Rate Per Call
Fixed.....	$.000051
Per mile.....	.000010
Tandem switching.....	.000306
Directory Assistance Multiplexing.....	.000034

SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

10.1 General

This section covers Special Access Services that are provided to a customer for use only by agencies or branches of the Federal Government and other users authorized by the Federal Government. Services provided to state emergency operations centers are included. These services provide for command and control communications, including communications for national security, emergency preparedness and presidential requirements. They are required to assure continuity of Government in emergency and crisis situations and to provide for national security.

Services for command and control communications and for national security and emergency preparedness sometimes require short notice and short duration service provisions. These provisions are especially needed to meet presidential requirements or in response to natural, man-made, or declared emergencies. Requirements of this type cannot be forecasted and are usually needed for a relatively short period. The provision of service under these conditions may require the availability of facilities, such as portable microwave equipment, which are provided on a temporary basis by the Telephone Company, or customer.

10.2 Emergency Conditions

These services will be provided on the date requested or as soon as possible thereafter when the emergency falls into one of the following categories:

State of crisis declared by the National Command Authorities (includes commitments made to the National Communications System in the "National Plan for Emergencies and Major Disasters").

Efforts to protect endangered U.S. personnel or property both in the U.S. and abroad. (Includes space vehicle recovery and protection efforts.)

Communications requirements resulting from hostile action, a major disaster or a major civil disturbance.

The director (Cabinet level) of a Federal department, Commander of a Unified/Specified Command, or head of a military department has certified that a communications requirement is so critical to the protection of life and property or to the National Defense that it must be processed immediately.

Political unrest in foreign countries which affect the national interest.

Presidential service.

SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

10.3 Intervals to Provide Service

Services provided under the provisions of this section of the tariff are provided on an Individual Case Basis. Therefore, orders for such service shall be placed under the Negotiated Interval provisions set forth in 5.2.1(B) preceding.

10.4 Safeguarding of Service

10.4.1 Facility Availability

In order to insure communications during periods of emergency, the Telephone Company will, within the limits of good management, make available the necessary facilities to restore service in the event of damage or to provide temporary emergency service.

In order to meet the requirements of agencies or branches of the Federal Government, the Telephone Company may utilize government-owned facilities, when necessary to provide service.

10.5 Federal Government Regulations

In accordance with Federal Government Regulations, all service provided to the Federal Government will be billed in arrears. However, this provision does not apply to other customers that obtain services under the provisions of this tariff to provide their service to the Federal Government.

10.6 Service Offerings to the Federal Government

The following unique services are provided to a customer for use only by agencies or branches of the Federal Government, other authorized users and state emergency operations centers. The rates and charges for these services shall be developed on an Individual Case Basis and shall be consistent with the rates and charges for services offered in other sections of this tariff.

10.6.1 Type and Description

(A) Voice Grade Special Access Services

(1) Voice Grade Secure Communications Type I

Approximate bandwidth of 10-50,000 Hertz. Furnished for two-point secure communications on two-wire or four-wire metallic facilities between two customer locations. Services are conditioned as follows:

SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(1) Voice Grade Secure Communications Type I (Cont'd)

T-3 Conditioning - The absolute loss (referenced to 1 milliwatt) with respect to frequency shall not exceed:

15 dB at 10 Hz
13 dB at 100 Hz
9 dB at 1,000 Hz
20 dB at 10,000 Hz
30 dB at 50,000 Hz

Additional conditioning, available in one or two directions on four-wire facilities only, to provide the following characteristics:

The absolute loss (referenced to one milliwatt) with respect to frequency shall not exceed:

0 dB at 1,000 Hz
± 1 dB between 1,000 Hz and 40,000 Hz
± 2 dB between 10 Hz and 50,000 Hz
(+ means more loss)

The net loss of the conditioned service (with or without additional conditioning) shall not vary by more than four dB at 1,000 Hz from the levels specified above. Voice frequency signaling or supervisory tones can be transmitted.

(2) Voice Grade Secure Communications Type II

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between two customer locations. Services are conditioned as follows:

G-1 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as Voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(3) Voice Grade Secure Communications Type III

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between a customer's location switch and a customer's location. Services are conditioned as follows:

G-2 Conditioning - The absolute loss with respect to frequency and the net loss variation from the switch to an end user's location shall be the same as Voice Grade Secure Communications Type I services without additional conditioning; from an end user's location to the switch shall be the same as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(4) Voice Grade Secure Communications Type IV

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between two customer premises switches. Services are conditioned as follows:

G-3 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same in both directions of transmission as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(B) Wideband Digital Special Access Service

Service arrangements for secured communications to accommodate the transmission of binary digital baseband signals in a random polar format.

(1) Wideband Secure Communications Type I

For transmission at the rate of 18,750 bits per second.

(2) Wideband Secure Communications Type II

For transmission at the rate of 50,000 bits per second.

SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.1 Type and Description (Cont'd)

(B) Wideband Digital Special Access Service (Cont'd)

(3) Wideband Secure Communications Type III

To accommodate the transmission of restored polar two-level facsimile signals with a minimum signal element width of twenty microseconds at a rate of 50,000 bits per second.

To accommodate the transmission of binary digital baseband signals in a random polar format at the rate of 50,000 bits per second.

10.6.2 Mileage Application

Mileage, when used for rate application between two customer-designated premises, shall be determined by the V and H Coordinates Method and administered as set forth in 7.4.5 preceding.

10.6.3 Rates and Charges

(A) Voice Grade Special Access Service

The provision of T-3 and G conditioned services contemplates station and tandem switching operations, using customer-provided equipment, as well as Special Access Service. Separate narrowband or voice grade services, where required by the customer-provided equipment or switching operation, are furnished in accordance with the applicable sections of this tariff.

Voice Grade Secure Communications	Per Month
Type I, each	
T-3 Conditioning	ICB rates and charges apply
Additional Conditioning, per service termination ...	ICB rates and charges apply
Type II, each	
G-1 Conditioning	ICB
Type III, each	
G-2 Conditioning	ICB
Additional Conditioning, per service termination ...	ICB

SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.3 Rates and Charges (Cont'd)

(A) Voice Grade Special Access Service (Cont'd)

Voice Grade Secure Communications	Per Month
Type IV, each G-3 Conditioning	ICB
Additional Conditioning, per service termination	ICB

(B) Wideband Digital Special Access Service

Wideband Secure Communications	
Type I, each	ICB rates and charges apply
Type II, each	ICB rates and charges apply
Type III, each	ICB rates and charges apply

(C) Move Charges

(1) When service without a termination charge associated with it as set forth in (A) and (B) preceding, is moved to a different building, the nonrecurring charge applies; when moved to a new location in the same building, a charge of one-half the nonrecurring charge applies.

(2) When service with a termination charge associated with it, as set forth in (A) and (B) preceding is moved and is reinstalled at a new location, the customer may elect:

to pay the unexpired portion of the termination charge for the service, if any, with the application of a non-recurring charge and the establishment of a new termination charge for such service at the new location, or to continue service subject to the unexpired portion of the termination charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Charges for moving such service will be based on estimated costs attributable to the move.

SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

10.6 Service Offerings to the Federal Government (Cont'd)

10.6.3 Rates and Charges (Cont'd)

(C) Move Charges (Cont'd)

(2) (Cont'd)

Move charges include the estimated costs of removal, restoration of services or facilities necessitated by the move, transportation, storage, reinstallation, engineering, labor, supervision, materials, administration, and any other specific items of cost directly attributable to the move.

SPECIAL FACILITIES ROUTING OF ACCESS SERVICES

11.1 Description of Special Facilities Routing of Access Services

The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access Service, Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the following conditions:

11.1.1 Diversity

Two or more services must be provided over not more than two different physical routes.

11.1.2 Avoidance

A service must be provided on a route which avoids specified geographical locations.

11.1.3 Cable-only Facilities

Certain Voice Grade services are provided on Cable-only Facilities to meet the particular needs of a customer.

Service is provided subject to the availability of Cable-only Facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

Avoidance and Diversity are available on Switched Access Service as set forth in Section 6 preceding; Narrowband, Voice Grade and Wideband Analog Special Access Services as set forth in 7.2.1, 7.2.2 and 7.2.5 preceding and Special Federal Government Access Services as set forth in 10.8 preceding. Cable-only Facilities are available for Switched Access Service as set forth in Section 6 preceding; Voice Grade Special Access Services as set forth in 7.2.2 preceding and Special Federal Government Access Services as set forth in 10.8 preceding.

In order to avoid the compromise of special routing information, the Telephone Company will provide the required routing information for each specially routed service to only the ordering customer. If requested by the customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

The rates and charges for Special Facilities Routing of Access Services as set forth in 11.2 following are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

SPECIAL FACILITIES ROUTING OF ACCESS SERVICES

11.2 Rates and Charges for Special Facilities Routing of Access Service

The rates and charges for Special Facilities Routing of Access Services are as follows:

11.2.1 Diversity

For each service provided in accordance with 11.1.1 preceeding.

	Per Month
Per circuit	$42.00

11.2.2 Avoidance

For each service provided in accordance with 11.1.2 preceeding, the rates and charges will be developed on an Individual Case Basis and filed following: SYA++

11.2.3 Diversity and Avoidance Combined

For each service provided in accordance with 11.1.1 and 11.1.2 preceding, combined, the rates and charges will be developed on an Individual Case Basis and filed following: SYB++

11.2.4 Cable-only Facilities

For each service provided in accordance with 11.1.3 preceding, the rates and charges will be developed on an Individual Case Basis and filed following: SYC++

SPECIALIZED SERVICE OR ARRANGEMENTS

12.1 General

Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an Individual Case Basis if such service or arrangements meet the following criteria:

The requested service or arrangements are not offered under other sections of this tariff.

The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services.

The requested service or arrangements are provided within a LATA.

The requested service or arrangements are compatible with other Telephone Company services, facilities, and its engineering and maintenance practices.

This offering is subject to the availability of the necessary Telephone Company personnel and capital resources.

12.2 Rates and Charges

Rates and charges and additional regulations if applicable, for specialized service or arrangements provided on an Individual Case Basis are filed following:

None

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

In this section normally scheduled working hours are the Telephone Company's normal business hours (8:00 AM to 5:00 PM, Monday through Friday) for the application of rates based on working hours.

13.1 Additional Engineering

Additional Engineering will be provided by the Telephone Company at the request of the customer only 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 6.1.4 and 7.1.6 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 7.1.1 preceding.

The Telephone Company will notify the customer that additional engineering charges, as set forth in 13.1.3 following, will apply before any additional engineering is undertaken.

13.1.1 Charges For Additional Engineering

The charges for additional engineering are as follows:

Additional Engineering Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
(A) Basic Time, normally scheduled working hours, per engineer.....	$31.49	$31.49
(B) Overtime, outside of normally scheduled working hours, per engineer.....	35.29	35.29

13.2 Additional Labor

Additional labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 13.2.1 through 13.2.5 following. The Telephone Company will notify the customer that additional labor charges as set forth in 13.2.6 following will apply before any additional labor is undertaken.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.2 Additional Labor (Cont'd)

13.2.1 Overtime Installation

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

13.2.2 Overtime Repair

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

13.2.3 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 to verify facility repair on a given service.

13.2.4 Testing and Maintenance with Other Telephone Companies

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

13.2.5 Other Labor

Other Labor is that additional labor not included in 13.2.1 through 13.2.4 preceding, including, but not limited to labor incurred for the installation of inside wire used to extend the Point of Termination as set forth in 2.1.5 preceding, and labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this tariff.

13.2.6 Charges for Additional Labor

Additional Labor Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
(A) Installation or Repair		
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*.....	$43.42	$ 3.45

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.2 Additional Labor (Cont'd)

13.2.6 Charges for Additional Labor (Cont'd)

(A) Installation or Repair (Cont'd)

Additional Labor Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Premium Time, outside of scheduled work day, per technician*.....	$46.87	$ 6.90
(B) Stand by		
Basic time, normally scheduled working-hours, per technician.....	None	21.87
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*.....	None	25.31
Premium Time, outside of scheduled work day, per technician*.....	None	28.76
(C) Testing and Maintenance with other Telephone Companies, or other labor		
Basic Time, normally scheduled working hours, per technician.....	61.84	21.87
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*.....	65.28	25.31
Premium Time, outside of scheduled work day, per technician*.....	68.73	28.76

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services

13.3.1 Maintenance of Service

(A) When a customer reports a trouble to the Telephone Company for clearance and no trouble is found 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 location to when the work is completed. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.

(B) The customer shall be responsible for payment of a Maintenance of Service Charge when the Telephone Company dispatches personnel to the customer's location and the trouble is in equipment or communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company.

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.

(C) The charges for Maintenance of Service are as follows:

Maintenance of Service Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Basic Time, normally scheduled working hours, per technician	$21.87	$21.87
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*	25.31	25.31
Premium Time, outside of scheduled work day, per technician*	28.76	28.76

13.3.2 Presubscription

(A) Presubscription is an arrangement whereby an end user may select and designate to the Telephone Company an IC to access, without an access code, for interLATA long distance calls.

(B) Presubscription is furnished in accordance with the provisions of the Federal Communications Commission's Allocation Plan, the regulations, rates and charges for which are specified in **Verizon** Telephone Companies Tariff F.C.C. No. 1.

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.3 Standard Jacks - Registration Program

Standard jacks are provided by the Telephone Company to connect Registered Equipment to those services that are subject to the Registration Program as specified in 2.5 preceding. The use of jacks is covered in Part 68 of the F.C.C.'s Rules and Regulations. Specific jacks are described in the document on file with the F.C.C. entitled "Descriptions of Standard Registration Program Connection Configurations Supplementing Configurations Described in Subpart F of Part 68 of the F.C.C.'s Rules and Regulations."

These jacks are used to terminate services provided by the Telephone Company. Other services or facilities provided by the Telephone Company or by others may also be terminated in any spare capacity of the jacks remaining after installation without additional charge for the use of such capacity.

The nonrecurring charges, which include installation for standard jacks and their typical uses are specified following:

(A) Standard Voice Jacks

	Nonrecurring Charge
(1) Miniature six-position jacks for connection of terminal equipment as follows:	
(a) Single-line telephone surface or flush mount	$10.00
(b) Single-line telephone wall mounted	10.00
(c) Two-line nonbutton telephone surface or flush mounted	10.00
(d) Single-line bridged 4-wire exchange 2/RT, T1/R1	10.00
(e) Two-line nonbutton telephone wall mounted	10.00

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.3 Standard Jacks - Registration Program (Cont'd)

(A) Standard Voice Jacks (Cont'd)

	Nonrecurring Charge
(1) (Cont'd)	
(f) Special single line equipment for use in hospital critical care areas	$10.00
(g) 9DB single line data equipment with mode indication and mode indication common leads, (This jack is normally used in association with a series jack)	10.00
(h) Three-line non-button telephones and ancillary-devices	49.00

(2) 50-Position Miniature Ribbon for connection of multiline terminating equipment and channel derivation devices as follows:

	Nonrecurring Charge
(a) For connection to 2-wire tie trunks E&M type I signaling (12-line capacity)	$160.00
(b) For connection to 4-wire tie trunks E&M type I signaling (8-line capacity)	160.00

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.3 Standard Jacks - Registration Program (Cont'd)

(A) Standard Voice Jacks (Cont'd)	Nonrecurring Charge
(2) (Cont'd)	
(c) For connection to 2-wire tie trunks E&M type II signaling (8-line capacity)	$160.00
(d) For connection to 4-wire tie trunks E&M type II signaling (6-line capacity)	160.00
(e) For connection to off-premises station lines (25-line capacity)	160.00
(f) For use with series devices such as toll restrictors (12-line capacity)	105.00
(g) For connection of up to 12-line bridged 4-wire exchange 2/RT, T1/R1	100.00
(3) Series Jacks for connection of terminal equipment as follows:	
(a) Single-line alarm reporting devices	66.00
(b) Series ancillary devices such as automatic dialers. Single-line tele-phones with exclusion	66.00 RJ32X

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.3 Standard Jacks - Registration Program (Cont'd)

	Nonrecurring Charge
(A) Standard Voice Jacks (Cont'd)	
(3) (Cont'd)	
(c) Two-line telephone with exclusion on one line	$ 66.00
(4) Weatherproof Jack for use with single line telephone used at locations such as boats and marinas	120.00
(B) Standard Data Jacks	
(1) Universal Data Jack for use in connecting fixed loss loop (FLL) and programmed (P) types of data equipment (1-line capacity)	69.00
(2) Programmed Data Jack or use in connecting programmed data equipment (1-line capacity)	65.00
(3) Multiple Line Universal Data Jack for use in connecting fixed loss loop (FLL) and programmed (P) types of data equipment, (This jack will terminate up to eight lines. The selection of this jack requires the use of the equipment listed following)	250.00

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.3 Standard Jacks - Registration Program (Cont'd)

(B) Standard Data Jacks (Cont'd)	Nonrecurring Charge
(3) (Cont'd)	
(a) Multiple Line Universal Data Jack Circuit Cards, for use with RJ26X, one circuit card per circuit required	$ 79.00
(b) Multiple Line Universal Data Jack Mounting options, for use with RJ26X, one required per RJ26X	
Wall Mounting with cover	45.00
Rack Mounting (19-inch or 23-inch)	28.00
(4) Miniature eight-position keyed jack for connection of local area data channels and/or Digital Data Access Services per channel	30.00
(5) Miniature fifty-position ribbon jack for connection of local area data channels and/or Digital Data Access Services per channel	30.00

13.3.4 Testing Services

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in 3.3.5(C) following. Other testing services provided by the Telephone Company in association with Access Services are furnished at no additional charge. These other testing services are described in 6.1.5 and 7.1.8 preceding.

Testing services are normally provided by Telephone Company personnel at Telephone Company locations. However, provisions are made in (A)(5) and (B)(2) following for a customer to request Telephone Company personnel to perform testing services at the customer's location.

The offering of Testing Services under this section of the tariff is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A), (B) and (C) following:

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(A) Switched Access Service

Testing Services for Switched Access are comprised of (a) tests which are performed during the installation of a Switched Access Service, and (b) tests which are performed after acceptance of such access services by a customer, i.e., in-service tests. These in-service tests may be further divided into two broad categories of tests: scheduled and nonscheduled.

Scheduled tests are those tests performed by the Telephone Company on a regular basis, e.g., monthly, which result in the measurement of Switched Access Service. Scheduled tests may be done on an automatic basis (no Telephone Company or customer technicians involved), on a cooperative basis (Telephone Company technician(s) involved at Telephone Company office(s) and customer technician(s) involved at customer's premises), or a manual basis (Telephone Company technician(s) involved at Telephone Company office(s) and at customer's premises).

Nonscheduled tests are performed by the Telephone Company "on demand", which result in the measurement of Switched Access Services. Nonscheduled tests may involve Telephone Company technicians at Telephone Company offices and at the customer's premises.

(1) Additional Cooperative Acceptance Testing

Additional Cooperative Acceptance Testing (ACAT) of Switched Access Service involves the Telephone Company provision of a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests.

Additional Cooperative Acceptance Tests may, for example, consist of the following tests:

C-Notched Noise, Impulse Noise, Phase Jitter, Signal to C-Notched Noise Ratio, Intermodulation (Nonlinear) Distortion, Frequency Shift (Offset) Envelope Delay Distortion, and Dial Pulse Percent Break.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(2) Automatic Scheduled Testing

Automatic Scheduled Testing (AST) of Switched Access Services (Feature Groups B and D), where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent, will consist of monthly loss and C-message noise tests and annual balance test. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance tests, the customer may also order, at additional charges, gainslope and C-notched noise testing.

The Telephone Company will provide a monthly AST report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

(3) Cooperative Scheduled Testing

Cooperative Scheduled Testing (CST) of Switched Access Services (Feature Groups B and D, and Directory Access Service not routed through an access tandem), where the Telephone Company provides a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests, will consist of quarterly loss and C-message noise tests, and annual balance tests. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance measurements, the customer may also order, at additional charges, gain-slope and C-notched noise testing.

The Telephone Company will provide, on a quarterly basis, a CST report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(4) Manual Scheduled Testing

Manual Scheduled Testing (MST) of Switched Access Services (Feature Groups B and D and Directory Access Service not routed through an access tandem), where the Telephone Company provides a technician at its office(s) and at the customer's location, will consist of quarterly loss and C-message noise tests, and annual balance tests. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance tests, the customer may also order, at additional charges, gain-slope and C-notched noise testing.

The Telephone Company will provide, on a quarterly basis, an MST report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

(5) Nonscheduled Testing

Nonscheduled Testing (NST) of Switched Access Services is where:

the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent ("automatic testing"), or the Telephone Company provides a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests ("cooperative testing"), or

the Telephone Company provides a technician at its office(s), and/or at the customer's location with suitable test equipment to perform the required tests ("manual testing").

Nonscheduled Tests may consist of any tests, e.g., loss, noise, slope, envelope delay, which the customer may require.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(6) Obligations of the Customer

(a) The customer shall provide the Remote Office Test Line priming data to the Telephone Company, as appropriate, to support AST as set forth in 13.3.4(A)(2) preceding or NST as set forth in 13.3.4(A)(5) preceding.

(b) The customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

(B) Special Access Service

The Telephone Company will, at the request of a customer, provide assistance in performing specific tests requested by the customer.

(1) Additional Cooperative Acceptance Testing (ACAT)

When a customer provides a technician at its premises or at an end user's premises, with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing on Voice Grade Services. At the customer's request, the Telephone Company will provide a technician at the customer's location or at the end user's location. These tests may, e.g., consist of the following:

Attenuation Distortion (i.e., frequency response)
Intermodulation Distortion (i.e., harmonic distortion)
Phase Jitter
Impulse Noise
Envelope Delay Distortion
Echo Control
Frequency Shift

(2) Nonscheduled Testing (NST)

When a customer provides a technician at its premises with suitable test equipment to perform the required tests, the Telephone Company will provide a technician at its office for the purpose of conducting Nonscheduled Testing. At the customer's request, the Telephone Company will provide

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(B) Special Access Service (Cont'd)

(2) Nonscheduled Testing (NST) (Cont'd)

a technician at the customer's location. Nonscheduled tests may consist of any tests, e.g., loss, noise, slope, envelope delay, which the customer may require.

(3) Obligation of the Customer

When the customer subscribes to Testing Service as set forth in this section, the customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

(C) Rates and Charges

(1) Switched Access

(a) Additional Cooperative Acceptance Testing (ACAT)

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Basic Time, normally scheduled working hours, per technician.....	$21.87	$21.87
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*....	25.31	25.31
Premium Time, outside of scheduled work day, per technician*.....	28.76	28.76

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(b) Automatic Scheduled Testing (AST)

The three tests as set forth in following represent the minimum offering, i.e., an order for testing must at a minimum, consist of twelve 1004 Hz Loss Tests per transmission path, twelve C-Message Noise Tests per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional Tests as set forth in (II) following may be ordered by the customer at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests 60 days prior to the start of the customer prescribed schedule.

To First Point of Switching	Per Month
(I) Basic Offering*	
1004 Hz Loss Tests performed within a one-year period, per test ordered, transmission path.....	$.35
C-Message Noise Tests performed within a one-year period, per test ordered, per transmission path...	.35
Return Loss (Balance) Tests performed within a one-year period, per test ordered, per transmission path...	.35

* Subject to a one-year minimum contract period, and annually thereafter.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(b) Automatic Scheduled Testing AST (Cont'd)

To First Point of Switching	Per Month
(II) Additional Tests	
Gain-Slope Tests performed within a one-year period, per test ordered, per transmission path.....	$ .35
C-Notched Noise Tests performed within a one-year period, per test ordered, per transmission path.....	.35

(III) Example

A customer schedules 13 1004 Hz Loss Tests, 13 C-Message Noise Tests and 2 Return Loss Tests on one trunk for a year. The charges will be computed as follows:

13 x $.35 = $4.55
+13 x .35 = 4.55
+ 2 x .35 = .70
$9.80 per month, per trunk

(c) Cooperative Scheduled Testing (CST)

The three tests as set forth in following represent the minimum offering, i.e., an order for testing must at a minimum, consist of four 1004 Hz Loss Tests per transmission path, four C-Message Noise Tests per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional Tests as set forth in (II) following may be ordered by the customer at additional charges, 60 days

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(c) Cooperative Scheduled Testing (CST) (Cont'd)

prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests 60 days prior to the start of the customer prescribed schedule.

To First Point of Switching	Per Month
(I) Basic Tests*	
1004 Hz Loss Tests performed within a one-year period, per test ordered, per transmission path	$ 7.47
C-Message Noise Tests performed within a one-year period, per test ordered, per transmission path	3.71
Return Loss (Balance) Tests performed within a one-year period, per test ordered, per transmission path	14.89
(II) Additional Tests	
Gain-Slope Tests performed within a one-year period, per test ordered, per transmission path	7.47

* Subject to a one-year minimum contract period, and annually thereafter.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(c) Cooperative Scheduled Testing (CST) (Cont'd)

To First Point of Switching	Per Month
(II) Additional Tests	
C-Notched Noise Tests performed within a one-year period, per test ordered, per transmission path.....	5.95

(III) Example

A customer schedules 6 1004 Hz Loss Tests, 6 C-Message Noise Tests and 4 Return Loss Tests on one trunk for a year. The charges will be computed as follows:

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  6 x $ 7.47 = $ 44.82
+ 6 x   3.71 =   22.26
+ 4 x  14.89 =   59.56
                $126.64 per month, per trunk
```

(d) Manual Scheduled Testing (MST)

The three tests as set forth in following represent the minimum offering, i.e., an order for testing must at a minimum, consist of four 1004 Hz Loss Tests per transmission path, four C-Message Noise Tests per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional Tests as set forth in (II) following may be ordered by the customer at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests, 60 days prior to the start of the customer prescribed schedule.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(d) Manual Scheduled Testing (MST) (Cont'd)

To First Point of Switching	Per Month
(I) Basic Tests*	
1004 Hz Loss Tests performed within a one-year period, per test ordered, per transmission path	$18.87
C-Message Noise Tests performed within a one-year period, per test ordered, per transmission path	11.36
Return Loss (Balance) Tests performed within a one-year period, per test ordered, per transmission path	33.72
(II) Additional Tests	
Gain-Slope Tests performed within a one-year period, per test ordered, per transmission path	18.87
C-Notched Noise Test performed within a one-year period, per test ordered, per transmission path	15.84
(III) Example	
See (c)(III) preceding.	

* Subject to a one-year minimum contract period, and annually thereafter.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(e) Nonscheduled Testing (NST)

Automatic Testing:

To First Point of Switching	Nonrecurring Charge
1004 Hz Loss, per test performed.....	$ .62
C-Message Noise, per test performed.....	.62
Return Loss (Balance), per test performed.....	.62
Gain-Slope, per test performed.....	.62
C-Notched Noise, per test performed.....	.62

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Cooperative Testing:		
Basic Time, normally scheduled working hours, per technician	$21.87	$21.87

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(e) Nonscheduled Testing (NST)

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*	$25.31	25.31
Premium Time, Outside scheduled work day, per technician*	28.76	28.76
Manual Testing:		
Basic Time, normally scheduled working hours, per technician	21.87	21.87
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*	25.31	25.31
Premium Time, outside of scheduled work day, per technician*	28.76	28.76

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(2) Special Access

(a) Additional Cooperative Acceptance Testing (ACAT)

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Basic Time, normally scheduled working hours, per technician	$21.87	$21.87
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*	25.31	25.31
Premium Time, outside of scheduled work day, per technician*	28.76	28.76

(b) Nonscheduled Testing (NST)

Testing Periods		
Basic Time, normally scheduled working hours, on a scheduled work day, per technician*	21.87	21.87
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*	25.31	25.31

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(2) Special Access

(a) Additional Cooperative Acceptance Testing (ACAT)

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
Premium Time, outside of scheduled work day, per technician*	$28.76	$28.76

13.3.5 Provision of Access Service Billing Information

(A) The customer will receive its monthly bills in a standard paper format.

(B) At the option of the customer, and for an additional charge:

(1) Customer monthly bills may be provided on magnetic tape,

(2) Billing detail and/or information may be transmitted to the customer premises by data transmission,

(3) Additional copies of the customer monthly bill or service and features record may be provided in standard paper or microfiche format.

(C) Upon acceptance by the Telephone Company of an order for data transmission, the Telephone Company will determine the period of time to implement the transmission of such material on an individual order basis.

(D) The rates and charges for the provision of Access Service Billing Information are as follows:

	Rates
(1) Provision of Standard Billing Detail and/or Information in magnetic tape format, per record, up to 225 bytes	$.0105

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.5 Provision of Access Service Billing Information (Cont'd)

(D) (Cont'd)

	Rates
(2) Data Transmission to a customer's premises of billing detail and/or information, per record transmitted	ICB rates and charges apply
(3) Additional Copies of the customer's monthly bill or service and features record in standard paper format, or microfiche format	
Per page	$.0013
Per microfiche record	.0001

13.3.6 Miscellaneous Equipment

Controller Arrangement

This arrangement enables the customer to control up to 48 transfer functions at a Telephone Company central office via a remote keyboard terminal capable of either 300 or 1200 bps operation. Included as part of the Controller Arrangement is a dial-up data station located at the Telephone Company central office to provide access to the Controller Arrangement. The dial-up data station consists of a 212A data set and an appropriate Telephone Company provided channel.

The Controller Arrangement must be located in the same Telephone Company central office as the transfer functions which it controls.

	Per Month
Per Arrangement	$160.85

13.3.7 (Reserved for Future Use) (C)

(D)

(D)

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.7 (Reserved for Future Use) (C)

(D)

(D)

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.7 (Reserved for Future Use) (C)

(D)

(D)

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.7 (Reserved for Future Use) (C)

(D)

(D)

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 - **LA-3)

A. GENERAL

Public Data Network (PDN) Service provides network transport for data services. The service utilizes packet switching technology, where the data is divided into blocks - packets with a fixed maximum length, and digital transmission facilities to provide common user switched data transport. The PDN Service consists of packet switches, access concentrators with modems and analog and digital facilities which provide for simultaneous two-way transmission of data signals at various speeds. The Public Data Network Service connects customers (end users) to customers (information providers, end users and Interexchange Carriers) and other packet networks.

B. REGULATIONS

1. Explanation of Terms

Call Redirection

Call redirection allows the customer's virtual calls to be automatically forwarded to an alternate destination, if the original destination is busy, out of order or has requested systematic redirection. The number of redirects per call is limited to one. Call redirection is offered on a X.25 basis or on an asynchronous and/or bisynchronous basis. Calls will not be redirected to an X.75 protocol.

Closed User Group

A closed user group is a specific group of data terminals which interconnect with each other. Each customer's channel may be associated with as many as ten closed user groups. Each data terminal in a closed user group can be arranged in one of the following modes.

Denial of Originating Calls*

The data terminal makes outgoing calls only to the data terminals in the closed user group with which it is associated.

Denial of Terminating Calls*

The data terminal receives incoming calls only from the data terminals in the closed user group with which it is associated.

Originating Access

The data terminal makes outgoing calls only.

* Available with asynchronous and X.25 protocols only.

** See General Regulations Tariff, S.C.C -Va. -No. 1, Section 3, Effective 10/02/06, this service is grandfathered applicable to all customers.

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 - **LA-3)

B. REGULATIONS (Cont'd)

1. Explanation of Terms

Terminating Access*

The data terminal receives incoming calls only.

Unrestricted Access

The data terminal receives and makes both incoming and outgoing calls.

Mnemonic Addresses

Mnemonic addresses allow the automatic translation of a three or four letter code-word, not including the period punctuation mark, into a data telephone number identifying the called address. This facility is available to a customer on packet switch access and direct access.

Monthly Detailed Connection File*

The monthly detailed connection file is a magnetic tape containing detailed call completion records associated with all customer channels within an account. This file is only available to the customer being billed for the service and contains all network usage.

Multiple Channel Hunt Group

Multiple channels can be arranged in a hunt group with a single network address. Terminating calls are distributed equally over the ports. Hunt groups can have a maximum of 64 circuits.

Multiple Network Addresses†

Customers may obtain for each direct or packet switch access connection, multiple network addresses to which calls can be delivered according to the customer's predetermined specifications.

* Available with X.25 and X.75 protocols only.

† Available with asynchronous and X.25 protocols only.

** See General Regulations Tariff, S.C.C -Va. -No. 1, Section 3,this service is grandfathered applicable to all customers.

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 - **LA-3)

B. REGULATIONS (Cont'd)

1. Explanation of Terms (Cont'd)

Network User Identification (NUI)

This is a feature that provides the PDN dial-up end user with the ability to log onto the Public Data Network by entering the end user's NUI and password. This allows for specific end user dial-up usage to be identified for billing and accounting purposes. The network can support up to 6,000 NUIs per access concentrator and the NUIs will be six-digit alphanumerics. NUI is not currently available to users accessing an X.75 connected host.

Network Management Report

This is a feature which provides customer usage reports with call detail information in a paper format.

Packet Size Negotiation*

Provides the capability for a customer to transmit/receive two packets containing a maximum of 256 octets, eight bits each, of data. Default maximum packet size is 128 octets.

Permanent Virtual Circuit

Permanent virtual circuits allow direct and packet switch access customers to establish a dedicated path which provides a security/privacy feature between themselves and a specific location.

Throughput Class Negotiation

This function permits negotiation on a per call basis of the throughput classes for each direction of data transmission.

Window Size Negotiation*

Provides the capability for a customer to transmit three packets of information without waiting for an acknowledgment from the packet switch to send additional packets. Default window size is two packets.

* Available with X.25 and X.75 protocols only.

** See General Regulations Tariff, S.C.C -Va. -No. 1, Section 3, this service is grandfathered applicable to all customers.

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 – **LA-3)

B. REGULATIONS (Cont'd)

2. Customers access the Public Data Network Service in three ways; by using Local Exchange Service; by having direct access by way of Special Access Service as described in Section 7 of this tariff and by having packet switch access by way of 9.6 or 56 kilobits per second (kbps) channels as also described in Section 7 of this tariff.

3. The technical specifications for Public Data Network Service are as described in Verizon Publication TR 72211.

4. Public Data Network Service provides the ability to originate and terminate calls as follows.

a. Exchange Service Access

(1) Dial Access - Originate Only, up to 1.2 and 2.4 kbps

(2) Dedicated-BRI Direct Access - Originate and Terminate, up to 9.6 kbps

b. Direct Access - Originate and Terminate, up to 1.2, 2.4, 4.8 and 9.6 kbps

c. Packet Switch Access - Originate and Terminate, 9.6 and 56 kbps

The originating and terminating calls are transported through the network in data packets. Data packets pass from the access concentrator to the packet switch in the originating or terminating direction. Packets remain in the proper sequence by means of the establishment of virtual circuits using transport capabilities of the X.25 protocol.

5. Public Data Network Service provides different billing options depending upon the type of customer access. The billing options are as follows.

a. Dial Access

Customers without Network User Identification - Reverse Charge Only
Customers with Network User Identification - Prepaid

b. Direct and Dedicated-BRI Direct Access

(1) Originating Calls

(a) Prepaid

Unless specifically identified on a call by call basis all originating traffic will be prepaid.

*Service Mark

** See General Regulations Tariff, S.C.C –Va. –No. 1, Section 3,this service is grandfathered applicable to all customers.

B. REGULATIONS (Cont'd)

5. (Cont'd)

b. Direct and Dedicated-BRI Direct Access (Cont'd)

(1) Originating Calls (Cont'd)

(b) Reverse Charge

Unless specifically identified on a call by call basis all originating traffic will be reverse charged to the called party.

(2) Terminating Calls

(a) Reverse Charge Acceptance

Customers who previously select this option will accept the charges for all calls sent to the network addresses assigned to the customer.

(b) Reverse Charge Denied

Customers who previously select this option will be able to receive prepaid calls only.

(3) Usage charges associated with calls transmitted on a reverse charge basis to a customer who does not subscribe to reverse charge acceptance capability will be billed to the originator of the call.

c. Packet Switch Access

(a) Originating Calls - See b.(1) preceding.

(b) Terminating Calls - See b.(2)(a) preceding.

(c) Usage Charges - See b.(3) preceding.

6. Optional Features

Optional Features provide the capability for direct or packet switch access customers to interact with the Public Data Network Service.

** See General Regulations Tariff, S.C.C -Va. -No. 1, Section 3, this service is grandfathered applicable to all customers.

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 - **LA-3)

B. REGULATIONS (Cont'd)

7. Provisions and Descriptions of Customer Access

a. Dial Access

There are four forms of dial access; generic, auto-call ports, dedicated dial ports and transaction services. These are initiated within the Public Data Network Service equipped local access and transport area (LATA) by dialing a Public Data Network Service access number via the customer's existing local exchange line. Dial access is provided for in the Telephone Company's Local Exchange and Long Distance Services Tariffs and the charges as specified therein apply for each completed call to the Public Data Network Service access number. Generic dial access supports asynchronous protocol and transmission speeds of up to 1.2 and 2.4 kbps. Auto-call and dedicated dial access support asynchronous protocol and transmission speeds of 300 bps, and 1.2 and 2.4 kbps. Transaction service supports asynchronous protocol and transmission speeds of 300 bps and 1.2 kbps.

(1) Generic Dial Access

Users will access these ports by dialing a telephone number and then must furnish via the connected data terminal, the network address with which the calling user wishes to converse. In addition, the user must manually negotiate with the Public Data Network Service, on a call-by-call basis, as to the transmission speed, up to 1.2 and 2.4 kbps, character parity, and other parameters of each transaction.

(2) Auto-call Ports

Specially programmed Public Data Network Service dial-in ports, assigned to a unique customer and accessed by a telephone number, which allows the connection of a dial-in terminal directly to a host data base within the Public Data Network Service equipped LATA or to an external data terminal via the services of an interexchange carrier. The connection is affected without the need for the originating data terminal to specify call routing details on a per call basis. Essentially, as soon as the Public Data Network Service dial-up modem "handshakes" with the modem of the originating data terminal, a call request packet is transmitted to the terminating data terminal and a virtual connection is established.

The customer, at service provisioning time, must specify any optional features, speed, parity, etc., as well as the destination network address and the appropriate interexchange carrier.

** See General Regulations Tariff, S.C.C -Va. -No. 1, Section 3, this service is grandfathered applicable to all customers.

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 - **LA-3)

B. REGULATIONS (Cont'd)

7. Provisions and Descriptions of Customer Access (Cont'd)

a. Dial Access (Cont'd)

(3) Dedicated Dial Ports (Cont'd)

Dedicated dial ports are auto call ports where the customer elects to provide their own business line termination in lieu of a telephone company provided access number.

(4) Transaction Service

Transaction service is designed for on-line credit verification. Each transaction consists of up to 12 packets of data transmitted. Multiple transactions may occur per call. Users will access ports by dialing a telephone number and then must furnish, via the connected data terminal, the network address with which the calling user wishes to communicate. The other transmission parameters are done automatically. Kilopacket transport and network connection time do not apply to transaction service. In addition, transmission speeds are limited to 300 bps and 1.2 kbps only.

b. Direct Access

Direct access is provided through channels as defined in Section 7 of this tariff to connect the customer to a modem on the access concentrator. Direct access supports three types of access concentrator protocols; asynchronous, bisynchronous and X.25. Each modem has a unique network address. Direct access is provided with transmission speeds of up to 1.2, 2.4, 4.8 and 9.6 kbps.

The three types of Direct Access are described as follows.

(1) Asynchronous Protocol

Asynchronous protocol provides the capability of establishing a single communications link from the customer through the Public Data Network Service.

(2) Bisynchronous Protocol

Bisynchronous protocol provides the capability of establishing a communications link to another bisynchronous connection at speeds of up to 2.4, 4.8 and 9.6 kbps.

** See General Regulations Tariff, S.C.C -Va. -No. 1, Section 3, this service is grandfathered applicable to all customers.

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 - **LA-3)

B. REGULATIONS (Cont'd)

7. Provisions and Descriptions of Customer Access (Cont'd)

b. Direct Access (Cont'd)

(3) X.25 Protocol

X.25 protocol provides the capability of establishing multiple virtual circuits from the customer through the Public Data Network Service. The maximum number of virtual circuits established is determined by the speed as follows.

Speed	Virtual Circuits
1.2 kbps	4
2.4 kbps	8
4.8 kbps	16
9.6 kbps	32

Technical Specifications

The technical specifications defined in Section 7 of this tariff apply for channels provided to the access concentrators.

c. Packet Switch Access

Packet switch access is provided through channels as defined in Section 7 of this tariff to connect a customer directly to a port on the packet switch. This arrangement supports high speed 9.6 or 56 kbps channels and either X.25 or X.75 protocol. The X.75 protocol provides load distribution. Packet switch access has the capability of establishing multiple virtual circuits from the customer through the Public Data Network Service.

(1) X.25 Protocol

The maximum number of virtual circuits established is determined by the speed as follows.

Speed	Virtual Circuits
9.6 kbps	128
56.0 kbps	256

** See General Regulations Tariff, S.C.C -Va. -No. 1, Section 3, this service is grandfathered applicable to all customers.

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 - **LA-3)

B. REGULATIONS (Cont'd)

7. Provisions and Descriptions of Customer Access (Cont'd)

c. Packet Switch Access (Cont'd)

(2) X.75 Protocol

The maximum number of multiple virtual circuits established is determined by speed as follows.

Speed	Virtual Circuits
9.6 kbps	128
56.0 kbps	256

(3) Technical Specifications

The technical specifications defined in Section 7 of this tariff apply for channels provided to the packet switch.

(4) Temporary Takedown

With prior written notice to the Telephone Company, a packet switch access customer may request temporary takedown, i.e., removal from service, of a packet switch access port. The two available takedown procedures are described in Verizon Publication TR 72211.

The credit allowance for service interruptions specified in paragraph 2.4.4. of Section of this tariff does not apply during the period of such temporary takedown.

C. RATES

1. Application of Rates

a. Rates and charges for Special Access Service of the appropriate type contained in Section 7 of this tariff, apply for each circuit connected to an access concentrator or packet switch, Local Exchange Service rates and charges apply for all dial access, and Centrex Service Arrangements as stipulated in The Local Exchange Services Tariff, Section 9, Centrex Services, apply for all INTELLILINQ-BRI Direct Access connections.

b. Access Connection

The Access Connection rate element provides a dedicated connection to an access concentrator or a packet switch. There are two types of access connections, the Direct Access Connection and Packet Switch Access Connection.

** See General Regulations Tariff, S.C.C -Va. -No. 1, Section 3, this service is grandfathered applicable to all customers.(N)

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 – **LA-3)

C. RATES (Cont'd)

1. Application of Rates (Cont'd)

b. Access Connection (Cont'd)

(1) A Direct Access Connection provides the customer dedicated access to a port on the access concentrator at transmission speeds of up to 1.2, 2.4, 4.8 and 9.6 kbps, with either asynchronous, bisynchronous or X.25 protocols.

(2) A Packet Switch Access Connection provides the customer with a dedicated connection to a port on the packet switch at transmission speeds of 9.6 or 56.0 kbps with either X.25 or X.75 protocols.

c. Network Usage

The Network Usage rate elements provide a customer the ability to send packets of data and the transport of those packets, to another customer. There are two types of Network Usage Charges, i.e., Network Connection Time and Kilopacket Transport.

(1) Network Connection Time

Network Connection Time provides a Dial Access customer the use of the network from the time the call is connected until it is terminated. Network Connection Time is billed to the terminating network address or Interexchange Carrier of the Public Data Network Service dial access call.

(2) Kilopacket Transport

Kilopacket Transport provides for the routing of the packets over the Public Data Network Service in both the originating and terminating directions. Usage charges are based on the number of kilopackets transmitted over the Public Data Network Service for all types of access. Charges are rated on a time-of-day basis as follows.

Rate Period	Time Applicable From	To But Not Including	Days Applicable
1	8:00 A.M.	5:00 P.M.	Monday through Friday
2*	8:00 A.M.	5:00 P.M.	Saturday and Sunday
	5:00 P.M.	11:00 P.M.	Every day
3	11:00 P.M.	8:00 A.M.	Every day

* Applicable for the holidays as specified in Section 2 of this tariff, Paragraph 2.4.1 (B)(3)(a).

** See General Regulations Tariff, S.C.C -Va. -No. 1, Section 3, this service is grandfathered applicable to all customers.

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 - **LA-3)

C. RATES (Cont'd)

1. Application of Rates (Cont'd)

d. Rearrangement Charge

The Rearrangement Charge applies for the following.

(1) The speed of a direct access connection or packet switch access connection is changed.

(2) A change is required at the direct access port without changing the network address.

(3) The protocol of a line is changed.

(4) Port or protocol parameters are changed.

(5) Existing channels are added to a closed user group.

(6) Existing channels are added to a multiple channel hunt group.

(7) Existing channels are established as part of a permanent virtual circuit.

(8) Existing packet size is changed.†

(9) Existing window size is changed.†

(10) Existing throughput class is changed.†

(11) Existing call redirection destination is changed.†

(12) Existing mnemonic addresses are changed.†

(13) A change is required to rearrange the network addresses on bisynchronous protocols.†

e. The NUI consists of a nonrecurring charge per account establishment and a monthly charge per NUI, per access concentrator.

NUI is offered for dial-up users accessing an X.25 or asynchronously connected host on a sent-paid basis. NUIs are to be purchased in groups of five.

† Only one rearrangement charge is applicable for changes to one or more of these features when requested at the same time.

** See General Regulations Tariff, S.C.C -Va. -No. 1, Section 3, this service is grandfathered applicable to all customers.(N)

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 - **LA-3)

C. RATES (Cont'd)

1. Application of Rates (Cont'd)

f. Network Management Reports consist of a nonrecurring charge per customer for each Data Network Control Center (DNCC) served area associated with the initial order, and a monthly charge per customer per DNCC served area.

2. Access Connection

a. Direct Access

(1) Asynchronous Protocol, each

For transmission speeds of	Nonrecurring Charge	Per Month
1.2 kbps	$ 73.37	$35.00
2.4 kbps	73.37	42.00
4.8 kbps	73.37	65.00
9.6 kbps	73.37	85.00

(2) Bisynchronous Protocol, for up to a maximum of 32 addresses, at the following transmission speeds, each

0 to 2.4 kbps		
Protocol and initial group of 4 addresses	73.37	52.00
Additional Group of 4 addresses	*	10.00
4.8 kbps		
Protocol and initial group of 4 addresses	73.37	75.00
Additional Group of 4 addresses	*	10.00
9.6 kbps		
Protocol and initial group of 4 addresses	73.37	95.00
Additional Group of 4 addresses	*	10.00

* If installed subsequent to the initial installation of the protocol with which it is associated a nonrecurring charge as specified in 5. following will apply.

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 - **LA-3)

C. RATES (Cont'd)

2. Access Connection (Cont'd)

c. Dial Access (Cont'd)

(3) X.25 Protocol, at the following transmission speeds, each	Nonrecurring Charge	Per Month
1.2 kbps	73.37	35.00
2.4 kbps	73.37	42.00
4.8 kbps	73.37	65.00
9.6 kbps	73.37	85.00

b. Packet Switch Access, at the following speeds, per port connected

(1) X.25 Protocol		
9.6 kbps	-	300.00
56.0 kbps	-	550.00
(2) X.75 Protocol		
9.6 kbps	-	300.00
56.0 kbps	-	550.00

c. Dial Access

(1) Auto Call Ports, including the associated modems, central office cross connections, line terminations and telephone numbers.		
Asynchronous Protocol		
First Auto Call Port	100.00	125.00
Additional Auto Call Port, each	100.00	50.00
(2) Dedicated Dial Port		
First Dial Port	100.00	112.00
Additional Dial Port, each	100.00	62.00
(3) Transaction Service, each transaction, per call	.02	

**

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 – **LA-3)

C. RATES (Cont'd)

3. Network Usage

a. Network Connection Time, per dial access minute or fraction thereof

Generic Port

Initial minute	$.02
Additional minutes, each	.01

b. Kilopacket Transport

Number of Kilopackets	Rate Period 1	Rate Period 2	Rate Period 3
Up to 100	$.55	$.40	$.25
Up to 500	.52	.39	.25
Up to 2000	.50	.38	.25
Up to 3000	.47	.37	.25
Up to 4000	.44	.36	.25
Up to 5000	.42	.35	.25
Up to 6000	.40	.34	.25
Over 6000	.38	.33	.25

4. Optional Features Per

		Nonrecurring Charge	Per Month
a.	Closed User Group, per channel, per group	-	$ 10.00
b.	Monthly Detailed Connection File, per billing account	-	230.00
c.	Multiple Channel Hunt Group, per hunt group	-	10.00
d.	Multiple Network Addresses, per 100 numbers	-	75.00
e.	Permanent Virtual Circuit, each	-	10.00
f.	Packet Size Negotiation, each	-	10.00
g.	Window Size Negotiation, each	-	10.00
h.	Through Put Class Negotiation, each	-	10.00
i.	Call Redirection, each	$ 25.00*	None

* If installed subsequent to the initial installation of the Public Data Network Service with which it is associated, a Rearrangement Charge as specified following will apply in addition.

PUBLIC DATA NETWORK SERVICE (Effective 10/02/06 – **LA-3)

C. RATES (Cont'd)

4. Optional Features Per (Cont'd)	Nonrecurring Charge	Per Month
j. Mnemonic Address, per address, per LATA.....	$150.00*	None
k. Network User Identification, each.....	7.00	5.00
l. Network Management Reports, per customer.....	75.00	150.00
5. Rearrangement Charge, per rearrangement..... 70.00	-	None

* If installed subsequent to the initial installation of the Public Data Network Service with which it is associated, a Rearrangement Charge as specified following will apply in addition.

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EXCHANGE ACCESS FRAME RELAY SERVICE – Grandfathered [1] (C)

A. GENERAL

Exchange Access Frame Relay Service (XA-FRS) is a medium-speed, connection-oriented packet-switched data service that allows for the interconnection of Local Area Networks (LANs) or other compatible customer equipment across a wide area. XA-FRS allows for the transfer of variable length frames (packets). Frames are relayed by virtual connections - frames travel a fixed path through the network although bandwidth is not dedicated to each virtual connection.

B. REGULATIONS

1. Explanation of Terms

Data Link Connection Identifier (DLCI)

The DLCI specifies a connection (e.g., customer premises to Telephone Company switch or Telephone Company switch to interexchange carrier network). A PVC is comprised of two or more DLCIs.

Network-to-Network Interface (NNI) Port Connection

The Network-to-Network Interface (NNI), specifies how an XA-FRS switch sends and receives data from a Frame Relay interexchange carrier's or other customer's network.

The NNI Port Connection provides connection of a digital transmission facility, including 56 and 64 Kbps DDS, 1.536 Mbps, DS1, and CIS Cross Connects, to Verizon's XA-FRS Network.

56 and 64 Kbps NNI Port Connections are available only as dedicated connections to the XA-FRS network; i.e. the NNI Port Connection customer and the customer for the connecting UNI(s) must be one and the same. In addition, the number of PVCs on a single 56 or 64 Kbps NNI Port Connection cannot exceed 28/32, and the sum of the individual CIR values cannot exceed 56/64 Kbps.

Permanent Virtual Connections (PVCs)

A PVC is a logical channel from one Frame Relay port to another Frame Relay port. PVCs are end-to-end, bi-directional channels that are established and dis-established via the service order process.

User Network Interface (UNI) Access Connections

The User Network Interface (UNI) is a standard interface used to connect the end user to the Verizon XA-FRS Network. It receives the data frame from the customer's Local Area Network or other CPE devices and verifies that the DLCI is valid before relaying the frame to the destination end point.

The UNI Access Connection consists of either a 56 Kbps, 64 Kbps, or a 1.536 Mbps digital facility from the customer premises to the XA-FRS network and the appropriate port interface connection.

[1] Effective August 20, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay] Service. Upon service term expiration, this service will transition to a Month-to-Month service arrangement. (N) | (N)

EXCHANGE ACCESS FRAME RELAY SERVICE – Grandfathered [1] (C)

B. REGULATIONS (Cont'd)

2. This service, comprised of two Interfaces, a User Network Interface (UNI), and a Network-to-Network Interface (NNI), allows XA-FRS compatible customer premises equipment (CPE) to originate or terminate interexchange services. All UNI access facilities must be in conformance with American National Standards Institute (ANSI) standards T1.606-1990, T1.606 Addendum 1-1991, T1.606a-1992, T1.617, Annex D-1992. All NNI access facilities must be in conformance with ANSI standards T1.606b-1993 and Bellcore Technical Reference TR-TSV061370, Issued: October 30, 1996, May 1993.

3. XA-FRS provides high speed throughput over digital facilities at speeds of 56 Kbps, 64 Kbps or 1.536 Mbps. Physical access to the Company Frame Relay network is provided via a UNI Access Connection or a NNI Port Connection and a digital transmission facility. A 56 Kbps DDS or a DS1-rated channel termination may be used as the NNI transport link. All DS1 transport must be equipped with B8ZS capability and Extended Super Frame (ESF).

4. Maintenance Windows

Network maintenance and network upgrades for XA-FRS are performed during the hours of 11:00 p.m. and 8:00 a.m. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive (out-of-service) condition. The amount of time that this scheduled out-of-service condition will exist is called a "maintenance window". The Company will provide to the customer notice twenty-five (25) business days prior to the maintenance window. Maintenance window activity could be scheduled for consecutive days.

5. XA-FRS is generally available and is ordered through the access service order process. The Access Order Service Date Interval for XA-FRS is negotiated as specified in Section 5.

6. Optional UNI Features

Additional PVCs per UNI

This feature provides the assignment of additional Data Link Connection Identifiers (DLCIs). When any two DLCIs are mapped together, a PVC is created. The customer shall pay for each additional PVC after the initial one.

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EXCHANGE ACCESS FRAME RELAY SERVICE – Grandfathered [1] (C)

B. REGULATIONS (Cont'd)

6. Optional UNI Features (Cont'd)

Committed Information Rate

Committed Information Rate (CIR) is a feature that provides the customer with a mechanism for prioritizing data on a per PVC basis across a given UNI. A Committed Information Rate allows a sustained throughput at a chosen rate without having any frames designated "discard eligible" under normal operating conditions.

Customer Network Management

Customer Network Management (CNM), where available, provides the end-user customer with the ability to pull statistical analysis reports about their respective network as it traverses the telco data network. This capability is provided as a "read only" capability. A customer may not manipulate any network configuration within the telco network. This feature includes the PVC required to manage the network.

Group Addressing

This feature allows a customer to send a single data unit across established PVCs to several intended recipients. The recipients are identified by an assignment of a group address used as the destination for the Frame Relay data unit. The DLCI assigned is now a group address.

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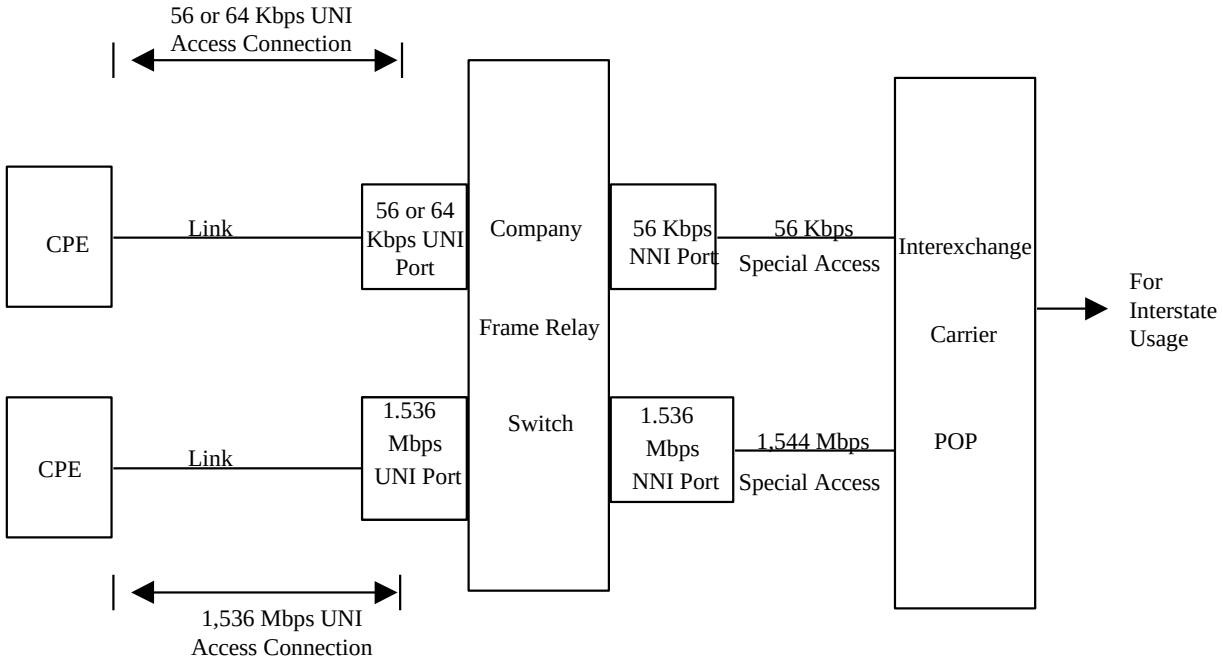
EXCHANGE ACCESS FRAME RELAY SERVICE – Grandfathered [1] (C)

B. REGULATIONS (Cont'd)

7. The following diagram depicts a generic view of the components of XA-FRS Service and the manner in which the components are combined to provide a complete XA-FRS connection.



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EXCHANGE ACCESS FRAME RELAY SERVICE – Grandfathered [1] (C)

C. RATES

1. Rate Regulations

a. Termination Charges: Month-to-Month and Term Pricing Plans (TPPs)

The minimum service period for XA-FRS is one month.

Term Pricing Plans are subject to early termination liability. For the 3-year TPP, the customer is liable for 100 percent of the monthly charges offset by 1/36th for each month in service. For the 5-year Term Pricing Plan, termination liability is the difference between the 3-year TPP monthly rate for 36 months and the actual number of months the plan has been in effect multiplied by the monthly rate for the 5-year TPP.

Termination liability does not apply when "portability" requirements are met. Portability is the replacement of a TPP service with another service for the balance of the plan period. Portability requirements are as follows:

(1) The replacement UNI Access Connection must be of the same type and speed and must not already be in a XA-FRS TPP.
(2) The orders to accomplish the replacement are placed with the Telephone Company at the same time with due dates within 90 days of each other and are related by a Related Purchase Order Number (RPON).
(3) The quantities associated with the replacement are equal to or greater than the disconnected service(s).

Customers may at any time convert from an existing commitment period to a new term pricing plan of equal or greater length without termination liability.

If rates increase, during the plan period, the customer may discontinue service without termination liability.

b. Nonrecurring Charges

A nonrecurring charge applies for each installation of certain XA-FRS rate elements. This charge also applies whenever the facility associated with the rate element is moved, changed or rearranged. The charge is not applicable when a customer converts from one term plan to another and there is no physical change in the service facility.

The UNI Access Connection nonrecurring charge for a Month-to-Month service is subject to refund, if the customer converts to a Term Pricing Plan within the first six months of service and a waiver of the nonrecurring installation charge for the Term Pricing Plan was in effect at the time the Month-to-Month service was installed. No credit is given for time-in-service while the customer was on the Month-to-Month plan.

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EXCHANGE ACCESS FRAME RELAY SERVICE – Grandfathered [1] (C)

C. RATES (Cont'd)

1. Rate Regulations

c. Administrative Charge

An administrative charge will be applied whenever a change is made to a customer's Frame Relay configuration (including changes to existing group addressing), at the customer's request. Such changes are defined as those rearrangements necessary to add, delete, or rearrange the customer's configuration, including changes to a customer's selected carrier. Although multiple changes may be caused by such actions, only one administrative charge will apply.

d. Term Pricing Plans

The XA-FRS UNI Access Connection is also provided for extended commitment periods in a 3 to 5-year Term Pricing Plan (TPP). Customers may add UNI Access Connections to an existing TPP within the initial 12 months. Otherwise, additional UNI Access Connections will be in a separate and new term pricing plan. Upon expiration of a TPP, the prevailing rates will apply.

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EXCHANGE ACCESS FRAME RELAY SERVICE – Grandfathered [1] (C)

C. RATES (Cont'd)

2. Rates and Charges	Nonrecurring Charge	Per Month
a. UNI Access Connection		
Month-to-Month		
56 Kbps	$ 875.00	$175.00
64 Kbps	875.00	175.00
1.536 Mbps	1,000.00	435.00
b. NNI Port Connection		
56 Kbps	230.00	60.00
1.536 Mbps	285.00	220.00
c. Optional UNI Features		
Additional PVC, each	25.00	-
Committed Information Rates		
0/8/16/28/32 Kbps	12.00	5.00
56/64 Kbps	12.00	2.00
128 Kbps	12.00	4.00
192 Kbps	12.00	7.00
256 Kbps	12.00	9.00
384 Kbps	12.00	12.00
512 Kbps	12.00	25.00
768 Kbps	12.00	28.00
Group Address	35.00	-
d. Administrative Charge	35.00	-
e. UNI Access Connection		
Term Pricing Plans		
(1) 3-year TPP		
56 Kbps	875.00	160.00
64 Kbps	875.00	160.00
1.536 Mbps	1,000.00	400.00
(2) 5-year TPP		
56 Kbps	875.00	150.00
64 Kbps	875.00	150.00
1.536 Mbps	1,000.00	380.00

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