Central Telephone Company
of Virginia

Tariff SCC No. 4
2nd Revised Title Page
Cancels 1st Revised Title Page

ISSUED: October 14, 2009

EFFECTIVE: October 19, 2009

Regulations, Rates and Charges
applicable to Access Services provided by
Central Telephone Company of Virginia
for connection to intrastate communications facilities
for Customers within the operating territories of

Central Telephone Company of Virginia d/b/a CenturyLink (C)

in the Commonwealth of Virginia

Access Services are provided by means of wire,
fiber optics, radio or any other suitable
technology or a combination thereof.

Issued by:
Director-Regulatory Systems & Modeling (T)
5454 West 110th Street
Overland Park, Kansas 66211
866-421-7935

Central Telephone Company of Virginia tariffs
may be viewed at the above address and at the
Virginia State Corporation Commission located in the (C)
Tyler Building - 9th Floor
1300 East Main Street
Richmond, Virginia 23219 (C)

Effective July 29, 2009, Central Telephone Company of Virginia registered the fictitious name CenturyLink. Effective October 19, 2009, Central Telephone Company of Virginia d/b/a Embarq, began operating under the name CenturyLink. As such, Central Telephone Company of Virginia d/b/a Embarq hereby adopts, ratifies, and makes its own, in every respect as if the same had been originally filed by it, all schedules, rules, notices, concurrences, schedule agreements, divisions, authorities or other instruments whatsoever, filed with the Virginia State Corporation Commission, State of Virginia, by or adopted by Central Telephone Company of Virginia d/b/a Embarq prior to October 19, 2009. (N)

By this notice, Central Telephone Company of Virginia d/b/a CenturyLink also adopts and ratifies all supplements or amendments to any of the above schedules, etc., which Central Telephone Company of Virginia d/b/a Embarq has heretofore filed with said Commission. (N)

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CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

EXPLANATION OF SYMBOLS

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

EXPLANATION OF ABBREVIATIONS

ABS	-	Alternate Billing Service
ac	-	Alternating Current
ANI	-	Automatic Number Identification
AULP	-	Annual Underutilization Liability Per Pair (D)
ASR	-	Access Service Request
AT&T	-	American Telephone and Telegraph Company
BNS	-	Billed Number Screening
CCSA	-	Common Control Switching Arrangement(s)
CCS/SS7	-	Common Channel Signaling/Signaling System 7
CLLI	-	Common Language Location Identification
CNCC	-	Customer Network Control Center
CO	-	Central Office
COCTX	-	Central Office Centrex
Cont'd	-	Continued
CPN	-	Calling Party Number
CSACC	-	Customer Service Administration Control Center
CSP	-	Carrier Selection Parameter
Ctx	-	Centrex
DA	-	Digital Data Access
dB	-	decibel
dBrnCO	-	Decibel Reference Noise C-Message Weighted O
dc	-	direct current
EML	-	Expected Measured Loss
ESS	-	Electronic Switching System
ESSX	-	Electronic Switching System Exchange
EUCL	-	End User Common Line
f	-	frequency
FCC	-	Federal Communications Commission
FOC	-	Firm Order Confirmation
FX	-	Foreign Exchange
HC	-	High Capacity
Hz	-	Hertz
IC	-	Interexchange Carrier
ICB	-	Individual Case Basis
ILP	-	Initial Liability Period

EXPLANATION OF ABBREVIATIONS (Cont'd)

kbps	-	kilobits per second
kHz	-	kilohertz
LATA	-	Local Access and Transport Area
LDMTS	-	Long Distance Message Telecommunication Service(s)
LIDB	-	Line Information Data Base
Ma	-	milliamperes
Mbps	-	Megabits per second
Mhz	-	Megahertz
MOU	-	Minutes of Use
MRC	-	Monthly Recurring Charge
MTL	-	Maximum Termination Liability
MTS	-	Message Telecommunications Service(s)
MTS/WATS	-	Message Telecommunications Service and/or Wide Area Telecommunications Service
NPA	-	Numbering Plan Area
NRC	-	Nonrecurring Charge
NTS	-	Non-Traffic Sensitive
NXX	-	Three Digit Central Office Code
OPC	-	Originating Point Code
OSS	-	Operator Service System
PBX	-	Private Branch Exchange
PCM	-	Pulse Code Modulation
PI	-	Priority Installation
PIN	-	Personal Identification Number
PIU	-	Percent Interstate Usage
PLR	-	Private Line Ringdown
POT	-	Point of Termination
PSTN	-	Public Switched Telephone Network
PVU	-	Percent VoIP Usage (N)
PR	-	Priority Restoration
RC	-	Rate Category
RCCs	-	Radio Common Carriers
rms	-	root-mean-square
SCP	-	Service Control Point
SS7	-	Signaling System 7
STP	-	Signal Transfer Point
SSN	-	Switched Service Network
SWC	-	Serving Wire Center
TDM	-	Time Division Multiplexing
TES	-	Telephone Exchange Service(s)
TLP	-	Transmission Level Point
TSP	-	Telecommunications Service Priority
VG	-	Voice Grade
V & H	-	Vertical & Horizontal
VoIP	-	Voice over Internet Protocol
WATS	-	Wide Area Telecommunications Service(s)
WCH	-	Wire Center Horizontal
WCV	-	Wire Center Vertical

ISSUED: July 23, 2001

EFFECTIVE: July 24, 2001

REFERENCE TO OTHER TARIFFS

Whenever reference is made in this tariff to other tariffs of the Central 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.

REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are referenced in this tariff and may be obtained from the respective agencies listed below, and from the Federal Communications Commission's commercial contractor:

Technical Reference:

Federal Aviation Administration (FAA),
Specification S-1142a
Issued: April, 1964 Available: April, 1964

Department of Transportation
Federal Aviation Administration
800 Independence Avenue, SW
Washington, D.C. 20591

Electronic Industries Association, RS-250-B
Issued: September, 1976 Available: September, 1976

Electronic Industries Association
2001 Eye Street, NW
Washington, D.C. 20006

Publication as No. 1
Issued: March, 1984 Available: April, 1984

National Exchange Carrier Association, Inc.
Group Manager - Tariff Administration
100 South Jefferson Road
Whippany, N.J. 07981

REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publications are referenced in this tariff and may be obtained from the Literary Data Center, Inc., G.P.O. Box C-9104, Brooklyn, N.Y. 11202.

Technical Reference:

Publication 41004 - Data Communications Using Voiceband Private Line Channels
Issued: October, 1983 Available: October, 1978

Publication 62310 - Digital Data System Channel Interface Specification
Issued: September, 1983 Available: October, 1983

Publication GR-54, Issue 1 - High Capacity Digital Service (1.544 Mbps) Interface Generic Requirements for End Users
Issued: December, 1995 Available: December, 1995

Publication TR-NPL-000246 - Bell Communications Research Specifications of Signaling System Number 7
Issued: June, 1989 Available: June, 1989

Publication TR-NPL-000334 - Voice Grade Switched Access Service
Reissued: November, 1987 Available: November, 1988

Publication TR-TSY-000335 (Issue 2) - Voice Grade Special Access
Reissued: December, 1989 Available: December, 1989

Publication TR-NWT-000335/PUB - 62501 Addendum - Voice Grade Special Access Service Transmission Parameter Limits and Interface Combinations
Issued: December, 1983 Available: April, 1984

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

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(D)

Publication TR-TSV-000905 - Common Channel Signaling (CCS) Network Interface Specifications
Issued: September, 1989 Available: September, 1989
Supplement: July, 1991 Available: July, 1991

Publication TR-TSV-000954 - Common Channel Signaling (CCS) Network Interface Specifications Supporting Alternate Billing Services (ABS)
Issued: November, 1989 Available: November, 1989

Publication TR-NPL-000341/PUB 62507 - Digital Data Special Access Service
Issued: September, 1988 Available: April 21, 1989

Publication GR-342, Issue 1 - High Capacity Digital Special Access Service
Issued: December, 1995 Available: December, 1995

MECAB (Multiple Exchange Carrier Access Billing) Guidelines Issue 2
Issued: December, 1989 Available: December, 1989

MECOD (Multiple Exchange Carrier Ordering and Design Guidelines) Version 3
Issued: November, 1989 Available: November, 1989

Publication AS No. 1, Issue II - Access Service
Issued: May, 1984 Available: June, 1984
Addendum: March, 1987 Available: April, 1987

ISSUED: July 23, 2001

EFFECTIVE: July 24, 2001

1. APPLICATION OF TARIFF

1.1 This tariff contains regulations, rates and charges applicable to the provision of End User Access, Switched Access, and Special Access Services, and other miscellaneous services, hereinafter referred to as service(s), provided by Central Telephone Company, hereinafter referred to as the Telephone Company, to Customers.

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

1.3 The regulations, rates, and charges set forth in this tariff apply to both IntraLATA and InterLATA Access Services.

ISSUED: July 23, 2001

EFFECTIVE: July 24, 2001

2. GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company

2.1.1 Scope

(A) The Telephone Company will provide services under this tariff only to Customers in connection with their use and/or provision of intrastate communications service.

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

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

(D) The Telephone Company will, for maintenance purposes, test its services only to the extent necessary to clear troubles.

(E) Services are provided twenty-four (24) hours daily, seven (7) days a week unless otherwise stated.

2.1.2 Limitations

(A) The use and restoration of services shall be in accordance with Part 64, Subpart D, Appendix A, of the FCC's Rules and Regulations, which specifies the priority system for such activities.

(B) Subject to compliance with the above-mentioned rules, the services offered herein will be provided to Customers on a first-come, first-served basis. The Telephone Company will use service order dates to determine service provision priority.

2.1.3 Liability

(A) The Telephone Company's liability for damages for its willful misconduct, if any, is not limited by this tariff. The Telephone Company's liability, if any, to a Customer or to others for damages arising from the furnishing of or the failure to furnish service or facilities, including but not limited to errors, interruptions, breakdowns, or other defects, whether caused by act or omission, shall be limited to the allocable charges for the service or facilities for the period affected, and shall be further limited under the provisions of Sections 2.1.3(B), (C) and (D), where applicable. The Telephone Company's responsibility, if any, to pay amounts otherwise due as a Credit Allowance for a Service Interruption under this tariff is not affected by this limitation of liability.

2. GENERAL REGULATIONS (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(B) The Telephone Company is not liable for any special, incidental or consequential damages, or for commercial loss of any kind, whether or not it has been informed of the possibility of such damages.

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

(D) 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 the services so provided to that Customer.

(E) 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.

(F) The Telephone Company's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotions, acts of God and other circumstances beyond the Telephone Company's reasonable control.

(G) 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.

2. GENERAL REGULATIONS (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.4 Provision of Services

The provision of all services under this tariff is dependent in all situations on the availability of Telephone Company plant and equipment.

2.1.5 Installation and Termination of Services

The services provided under this tariff (A) will include any entrance cable within a building necessary to terminate the services at points, selected by the Customer, reasonably situated so as to serve the Customer's premises and (B) will be installed by the Telephone Company to such points of termination. Wiring to apparatus or facilities of the Customer shall be furnished by the Customer from such points of termination.

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, except with the prior written consent of the Telephone Company, 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.

2.1.7 Changes and Substitutions

Except as provided for equipment and systems subject to FCC Part 68 regulations, 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 network protection criteria; (C) change operating or maintenance characteristics of facilities; or (D) change operation or procedures of the Telephone Company. In case of any such substitution, change or rearrangement, the facility parameters will be within the ranges set forth in Sections 4 and 5. 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 a substitution, change or rearrangement materially affects the operating characteristics of the facility, the Customer will be given adequate notice 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 minimize any disruption caused or changes made necessary by changes in service.

2. GENERAL REGULATIONS (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Discontinuance and Refusal of Service

If a Customer fails to comply with the provisions set forth in this tariff, or fails to make any payment to be made by it on the dates and times herein specified, including the payment of a disputed amount, the Telephone Company may, on thirty (30) days written notice given in person, **by mail or email if the customer is billed electronically or consents to receiving electronic notification,** to the person designated by that Customer to receive notices of noncompliance: (C) (C)

(A) Refuse additional applications for service and/or refuse to complete any pending orders for service; and/or

(B) Discontinue the provision of the services involved. In the case of such discontinuance, all applicable charges shall become due as if that Customer had cancelled service.

If the Telephone Company does not refuse additional applications for service on the date specified in the thirty (30) day notice given pursuant to (A) above, or does not discontinue the provision of the services involved on the date specified in the thirty (30) days notice given pursuant to (B) above, and that Customer's noncompliance continues, the Telephone Company shall have the right to refuse additional applications for service or to discontinue service 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 Publication AS No. 1

2.1.10 Rights to Telephone Numbers

The Telephone Company reserves the right to assign, designate or change telephone numbers or change the central office prefixes associated with telephone numbers assigned to Customers as is reasonably necessary in the conduct of Telephone Company business. Written notice of any change will be given to the Customer ninety (90) days in advance of the change. Where extenuating circumstances do not permit notice to be given ninety (90) days in advance, the Telephone Company will give notice within a reasonable period of time as circumstances permit. The notice will contain an explanation of the reasons for the change.

2.1.11 Representations

The Telephone Company does not represent that its facilities will meet standards other than those set forth in Sections 4, 5, 6 and 7 of this tariff.

2. GENERAL REGULATIONS (Cont'd)

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 or its affiliated companies, cause damage to plant, impair the privacy of any communications carried over facilities or create hazards to employees of the Telephone Company or its affiliated companies or to the public.

(B) Except as provided for equipment or systems subject to the FCC Part 68 rules, if such characteristics or methods of operation are not in accordance with Section 2.2.1(A), 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 from temporarily discontinuing 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.

2.2.2 Unlawful Use

The services provided under this tariff shall not be used unlawfully or for any unlawful purpose.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer

2.3.1 Damages and Indemnification

(A) The Customer shall reimburse the Telephone Company for damages to the Telephone Company facilities utilized to provide services under this tariff caused by the negligence or willful act of the Customer, its agents, employees, officers, directors, invitees, guests, customers, and others using the services provided to the Customer by the Telephone Company, or resulting from improper use of the Telephone Company facilities by the Customer, its agents, employees, officers, guests, customers, and others using the services provided to the Customer by the Telephone Company, 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.

(B) The Telephone Company shall be indemnified, defended and held harmless by the IC or End User against any claim, loss or damage arising from the use of services offered under this tariff. This obligation to indemnify, defend and hold harmless shall attach to the IC or the End User separately, and each shall be responsible for its own acts and omissions, including:

(1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from any communications;

(2) Claims for patent infringement arising from 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 End User or IC in the course of using services provided pursuant to this tariff.

Notwithstanding the other provisions of this Section 2.3.1(B), the Telephone Company shall be indemnified, defended and held harmless by the Customer from any and all claims by any person relating to the Customer's use of services provided under this tariff.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.2 Return of Facilities

Facilities provided by the Telephone Company to the possession or control of a Customer shall be returned by that Customer at its expense to the Telephone Company, upon request, within a prompt period of time following the request in as good a condition as when initially provided, reasonable wear and tear accepted.

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 services or facilities of the Telephone Company.

2.3.4 Availability for Testing

The service 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 service 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.

2.3.6 Design of Customer Services

Subject to the provisions of Section 2.1.7, 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.

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. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.8 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.

2.3.9 Assignment or Transfer of Services

The Customer may not assign or transfer the use of services provided under this tariff except, where there is no interruption of use or relocation of the services, such assignment or transfer may be made to:

(A) Another Customer, whether an individual, partnership, association or corporation, provided the assignee or transferee expressly 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

(B) 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 expressly 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. The acknowledgment will be made within fifteen (15) days from the receipt of notification. All regulations and conditions contained in this tariff shall apply to such assignee or transferee. 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.

2.3.10 Certification of Special Access Services (Lines) As Interstate

(A) Interstate Classification Requirements

Pursuant to Federal Communications Commission Order FCC 89-224 adopted June 24, 1989 and released July 20, 1989, the jurisdiction of mixed interstate and intrastate Special Access Services will be determined as follows:

If the customer's estimate of the interstate traffic on the service involved constitutes ten percent (10%) or less of the total traffic on that service, the service will be provided in accordance with the applicable rules and regulations of the appropriate intrastate tariff.

If the customer's estimate of the interstate traffic on the service involved constitutes more than ten percent (10%) of the total traffic on that service, the service will be provided in accordance with the applicable rules and regulations on the appropriate interstate tariff.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.10 Certification of Special Access Services (Lines) As Interstate (Cont'd)

(B) Certification Requirements

When a customer orders a Special Access Service under this tariff, the customer shall certify, in its order, that the Special Access Service carries intrastate traffic and the intrastate traffic is ten percent (10%), or less, of the total traffic carried on the Special Access Service.

Existing customers of Mixed Use Special Access Service as of May 1, 1990 will be required to certify the jurisdiction of each Special Access line. Implementation of changes in jurisdictional use of the line indicated by customers of Mixed Use Special Access Service will be completed via an Access Service Request (ASR).

(C) Verification Information

If a billing dispute arises or a regulatory commission questions the customer certification, the Telephone Company will ask the customer to provide the data the customer uses to determine the jurisdiction of each Special Access line. The customer shall supply the data within 30 days of the Telephone Comany request. The customer shall keep records of system design and functions from which the jurisdiction of each Special Access line can be determined and upon request of the Telephone Company make the records available for inspection as reasonably necessary for purpose of verification of the jurisdiction of each Special Access Line.

(D) Nonrecurring Charges and Penalties

Customers of Mixed Use Special Access Service will not incur a nonrecurring charge in accordance with Section 5.4.1(C) of this tariff, nor any penalty for changes made to jurisdictional use of the line.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements

(A) Percent Interstate Usage (PIU)

(1) Pursuant to Federal Communications Commission order F.C.C. 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 (as designated by the called station number) is situated is an intrastate communication and every call for which the point of entry is in a state other than that where the called station (as designated by the called station number) is situated is an interstate communication.

(2) When the Telephone Company has measurement capability to provide the data to determine the jurisdiction of the usage, the Telephone Company will determine the jurisdiction of the usage. In those instances where the Telephone Company cannot determine the jurisdiction, the projected interstate percentages will be used by the Telephone Company to apportion the usage between interstate and intrastate until a revised report is received as set forth in B(7) following. (C) (C)

(B) Jurisdictional Reports

When the Telephone Company receives sufficient call detail to permit it to determine the jurisdiction of originating and terminating access minutes of use, the Telephone Company will bill the minutes of use according to that jurisdiction and will not use the customer provided PIU factors provided as set forth in (1) through (10) following. (C) (C)

(D) (D)

When the Telephone Company receives insufficient call detail to determine the jurisdiction, the Telephone Company will apply the customer's projected PIU factor, provided as set forth in (1) through (10) following, to apportion the usage between interstate and intrastate.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(B) Jurisdictional Reports (Cont'd)

(1) When a customer orders Feature Group A, Feature Group B, 500 Access Service and/or Toll Free Code (TFC) Access Service, the customer shall state in its order the projected interstate percentage for interstate usage for each Feature Group A, Feature Group B, 500 Access Service and/or TFC Access Service ordered. If the customer discontinues some but not all of the Feature Group A, Feature Group B, 500 Access Service and/or TFC Access Services in a group, it shall provide an updated projected interstate percentage for the remaining services in the group.

Upon employing the 700 access code over Feature Group D, the customer must provide a projected interstate percentage for the 700 calls. If the customer fails to provide a 700 projected interstate percentage, a default percentage of 100 percent interstate will be assumed.

(2) For single connection arrangements, the interstate Feature Group A, Feature Group B, and/or TFC Access Service information reported as set forth in (1) preceding will be used to determine the charges. The number of access minutes (either the measured minutes or the assumed minutes) for a connection will be multiplied by the projected interstate percentage to develop the interstate access minutes. The number of access minutes for the connection minus the developed interstate access minutes for the connection will be the developed intrastate access minutes.

(3) For multiline hunt group or trunk group arrangements, the interstate Feature Group A, Feature Group B, and/or TFC Access Service information reported as set forth in (1) preceding will be used to determine the charges. The number of access minutes (either the measured minutes or the assumed minutes) for a service will be multiplied by the projected interstate percentage to develop the interstate access minutes. The number of access minutes for the service minus the developed interstate access minutes for the service will be the developed intrastate access minutes.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(B) Jurisdictional Reports (Cont'd)

(4) When a customer orders Feature Group C, Feature Group D, or TFC Access Services, the projected interstate percentage will be determined as set forth in (a) through (c) following:

(a) For originating Feature Group C and originating Feature Group D used in the provision of MTS/MTS-like service, the Telephone Company will determine the projected interstate percentage of use from the call detail.

(b) For terminating Feature Group C used in the provision of MTS/MTS-like service, and terminating Feature Group C used in the provision of 900 service, the projected interstate percentage of use will be determined through the application of terminating to originating (T/O) factors as set forth in Section 4.6.8 following. (T) (T)

(c) For terminating Feature Group D used in the provision of MTS/MTS-like service, terminating Feature Group D used in the provision of 900 service, originating Feature Group C and Feature Group D used in the provision of 900 service, and originating and terminating Feature Group D used in the provision of Toll Free Code (TFC) Service, the customer shall provide the projected interstate usage percentage in its Access Service Order. In the event the customer fails to provide a projected interstate percentage, the Telephone Company will determine the projected interstate percentage as follows:

For originating access minutes, the projected interstate percentage will be developed on a monthly basis when the Feature Group C or Feature Group D Switched Access Service minutes are measured by dividing the measured interstate originating minutes (the minutes where the calling number is in one state and the called number is in another state) by the total originating minutes when the call detail is adequate to determine the appropriate jurisdiction.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(B) Jurisdictional Reports (Cont'd)

(4) When a customer orders … (Cont'd)

(c) For terminating Feature Group … (Cont'd)

For terminating access minutes, the data used by the Telephone Company to develop the projected interstate percentage for originating access minutes will be used to develop projected interstate percentage for such terminating access minutes.

When originating call details are insufficient to determine the jurisdiction for the call, the prior month's projected interstate percentage shall be used by the Telephone Company as the projected interstate percentage for originating and terminating access minutes. The projected intrastate percentage of use will be obtained by subtracting the projected interstate percentage for originating and terminating access minutes from 100 (i.e., 100 - interstate percentage = intrastate percentage).

(5) Reserved for future use.

(6) Except where Telephone Company measured access minutes are used as set forth in (4) preceding, the customer reported number of interstate services or interstate percentage of use as set forth in (1) or (4) preceding will be used until the customer reports a different projected interstate percentage for an in-service end office. When the customer adds or discontinues lines or trunks to an existing end office, the customer shall furnish an updated projected interstate percentage that applies to the end office. The revised report will serve as the basis for future billing and will be effective on the next bill date. No prorating or back billing will be done based on the report.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(B) Jurisdictional Reports (Cont'd)

(7) Effective on the first of January, April, July, and October of each year, the customer shall provide a revised jurisdictional report showing the interstate and intrastate percentage of use for the past three months ending the last day of December, March, June, and September, respectively, for each service arranged for interstate use. The customer shall forward the revised report to the Telephone Company, to be received no later than 15 days after the first of each such month, (i.e., January, April, July, and October). The revised report will serve as the basis for the next three months billing (i.e., beginning the first of February, May, August, and November) and will be effective on the customer's bill date for that service. No prorating or back billing will be done based on the report.

If the customer does not supply the revised reports, the Telephone Company will assume the percentages to be the same as those provided in the last quarterly report. For those cases in which a quarterly report has never been received from the customer, the Telephone Company will assume the percentages to be the same as those provided in the order for service as set forth in (1) and (4) preceding.

(8) When a customer orders Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service, the customer shall provide to the Telephone Company in its order for the service, a CCS/SS7 Interconnection Service Percent Interstate Usage (PIU) Report.

Customers who provide the CCS/SS7 Interconnection Service PIU Report shall supply the Telephone Company with an interstate percentage, of 0 through 100, per Signaling Transfer Point (STP) Port Termination. This STP Port Termination PIU will be an average PIU based upon the jurisdiction (interstate versus intrastate) of those originating end user calls that require use of the specified STP Port Termination for signaling purposes.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(B) Jurisdictional Reports (Cont'd)

8) When a customer orders Common Channel … (Cont'd)

The PIU provided by the customer for the STP Port Termination will be used by the Telephone Company to determine the jurisdiction (interstate versus intrastate) of the customer's STP Access Mileage Charges.

The CCS/SS7 Interconnection Service PIU must be provided to the Telephone Company upon ordering service, and thereafter, on a quarterly basis. Provisions for updating the interstate and intrastate jurisdictional report as specified in 2.3.11(B)(7) preceding will also apply for updating the CCS/SS7 Interconnection Service PIU Report. The Telephone Company will utilize the quarterly CCS/SS7 Interconnection Service PIU Report for the STP Port Termination to update the STP Access Mileage PIU effective on the bill date for the service.

Verification provisions as specified in 2.3.11(C) following will also apply to the CCS/SS7 Interconnection Service PIU Report.

(9) When a customer orders Line Information Data Base (LIDB) Access Service, the customer shall in its order provide to the Telephone Company a LIDB Access Service Percent Interstate Usage (PIU) Report.

Customers who provide the LIDB Access Service PIU Report shall supply the Telephone Company with an interstate percentage per originating point code (OPC) ordered. The LIDB Access Service PIU will be an average PIU based upon the jurisdiction (interstate versus intrastate) of those originating end user calls for which the Telephone Company LIDB is being queried.

The LIDB Access Service PIU Report must be provided to the Telephone Company upon ordering service, and thereafter, on a quarterly basis. Provisions for updating the interstate and intrastate jurisdictional report are as specified in 2.3.11(B)(7) preceding, and will also apply for the LIDB Access Service PIU Report.

Verification provisions as specified in 2.3.11(C) will also apply for LIDB Access Service PIU Report.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(B) Jurisdictional Reports (Cont'd)

(10) Entrance Facility and Direct-Trunked Transport

Entrance Facility and Direct-Trunked Transport will be made available on August 1, 1995 in conformance with the restructure of Local Transport. In order to provide these new services on August 1, 1995, customers of Switched Access Services must provide new PIU factors that reflect all Switched Access Services using these restructured facilities.

(a) When an Entrance Facility is provided for both interstate and intrastate Switched Access, the customer must provide a Switched Access Entrance Facility PIU factor on a serving wire center or study area level. The Entrance Facility PIU must account for all Switched Access originating and terminating usage carried over the Entrance Facility.

(b) When Direct-Trunked Transport is provided for both interstate and intrastate Switched Access, the customer must provide a Switched Access Direct-Trunked Transport PIU factor on a study area level. The Direct-Trunked Transport PIU must account for all Switched Access originating and terminating usage carried over the Direct-Trunked Transport facilities.

(c) If the customer does not provide a Switched Access PIU factor for an Entrance Facility or Direct-Trunked Transport as set forth in (a) and (b) preceding, the Telephone Company will develop a PIU for the Entrance Facility and Direct-Trunked Transport using the most current representative period.

The Entrance Facility and Direct-Trunked Transport PIU Report must be provided to the Telephone Company upon ordering service, and thereafter, on a quarterly basis. Provisions for updating the interstate and intrastate jurisdictional report as specified in 2.3.11(B)(7) preceding will also apply for the Entrance Facility and Direct-Trunked Transport PIU Report.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Report Verification

Verification provisions as specified in 2.3.11(C) following will also apply for the Entrance Facility and Direct-Trunked Transport PIU Report.

If the Telephone Company disputes the reasonableness of the PIU provided by the customer as set forth in (B) preceding, or the reported PIU varies by more than five percentage points over the preceding PIU, the Telephone Company may ask the customer to provide the data used by the customer to determine the projected interstate percentage. The customer shall retain, for a minimum of one year, accurate call detail records from which the percentage of interstate and intrastate use can be derived, and shall make such records available for inspection as reasonably necessary for PIU verification. Such records shall be made available for inspection and audit within 15 days of the Telephone Company's request for verification.

The Telephone Company shall limit audits to no more than one per year, except where additional audits may be required to verify allocation changes which represent a five percent shift from the customer's most recent reported figures, and such change is not the result of seasonal shifts or other identifiable reasons. The customer may request that verification audits be conducted by an independent auditor. In such cases the associated auditing expenses will be paid by the customer.

In the event that the customer fails to provide adequate records to enable the Telephone Company or an independent auditor to conduct an audit verifying the customer's PIU, the Telephone Company will bill the usage for all the contested periods using the PIU reported by the customer for the previous period. This PIU will remain in effect until the customer provides the call detail records from which the percentage of interstate and intrastate use can be derived. No prorating or back billing will be done based on the newly derived factor.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.12 Determination of Intrastate Charges for Mixed Interstate and Intrastate Access Service, CCS/SS7 Interconnection Service and/or LIDB Access Service

When mixed interstate and intrastate Access Service, CCS/SS7 Interconnection Service and/or LIDB Access Service is provided, all charges (i.e., nonrecurring, monthly and/or usage) including optional features charges, will be prorated between interstate and intrastate, except for those charges associated with 900 Access Service. The percentage provided in the reports as set forth in 2.3.11 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, calls and queries) 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 2.3.11 preceding.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Identification and Rating of VoIP-PSTN Traffic

(A) Scope

VoIP-PSTN Traffic is defined as traffic exchanged between a Telephone Company end user and the customer in Time Division Multiplexing ("TDM") format that originates and/or terminates in Internet Protocol ("IP") format. This section governs the identification and compensation of VoIP-PSTN Traffic that is required to be compensated at access rates, unless the parties have agreed otherwise, by the Federal Communications Commission in its Report and Order in WC Docket Nos. 10-90, etc., FCC Release No. 11-161 (November 18, 2011)("FCC Order"). Specifically this section establishes the method of separating VoIP-PSTN Traffic from the customer's traditional intrastate access traffic, so that VoIP-PSTN Traffic can be billed in accordance with the FCC Order. (C) (C)

The FCC released its Second Order of Reconsideration in WC Docket No. 10-90, etc., FCC Release No. 12-47 (April 25, 2012) which temporarily modified the compensation of originating VoIP-PSTN Traffic on a prospective basis. Upon receipt, validation and acceptance of the Percent VoIP Usage factor, originating VoIP-PSTN Traffic will be compensated as follows: (N)

- Between the Initial Implementation date described in 2.3.13.(D)(1), and July 12, 2012, the applicable rate elements used in providing originating access for VoIP-PSTN Traffic and associated facilities will be billed according to interstate access rates.
- Effective July 13, 2012 the applicable rate elements used in providing originating access for intrastate VoIP-PSTN Traffic and associated facilities will be billed according to intrastate access rates. The applicable rate elements used in providing originating access for interstate VoIP-PSTN Traffic and associated facilities will be billed according to interstate access rates.
- Effective July 1, 2014 the applicable rate elements used in providing originating access for intrastate VoIP-PSTN Traffic and associated facilities will be billed according to interstate access rates.
- After the Initial Implementation date described in 2.3.13.(D)(1), terminating VoIP-PSTN Traffic and associated facilities will be billed according to interstate access rates. (N)

(M)

(M) Material moved to Original Page 18.1.1 of this section.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(B) VoIP-PSTN Traffic and associated facilities identified in accordance with this tariff section will be billed at rates equal to the Telephone Company's applicable tariffed interstate switched access rate as specified in CenturyLink Operating Companies Tariff F.C.C. No. 9, Section 6 when applicable based on the schedule shown above**. The intrastate minute of use rates (mirroring interstate) are shown in Section 4.7.7.** (N) (N)

(C) Calculation and Application of Percent VoIP Usage Factors

(1) The Telephone Company will determine the number of VoIP-PSTN Traffic minutes of use ("MOU") to which interstate rates will be applied under (B) preceding, by applying an originating Percent VoIP Usage ("PVU") factor to the total intrastate access MOU originated by a Telephone Company end user and delivered to the customer and by applying a terminating PVU factor to the total intrastate access MOU terminated by a customer to the Telephone Company's end user.

(2) The Telephone Company will use state average data and the customer provided Facility PVU to determine the monthly recurring credit for terminating VoIP-PSTN Traffic.

(3) The customer will calculate and furnish to the Telephone Company an originating PVU factor representing the whole number percentage of the customer's total originating intrastate access MOU that the customer exchanges with the Telephone Company in the state that is received from the Telephone Company and that is terminated in IP format and that would be billed by the Telephone Company as intrastate access MOU.

(4) The customer will calculate and furnish to the Telephone Company a terminating PVU factor representing the whole number percentage of the customer's total terminating intrastate access MOU that the customer exchanges with the Telephone Company in the state that is sent to the Telephone Company and which originated in IP format and that would be billed by the Telephone Company as intrastate access MOU.

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(C) Calculation and Application of Percent VoIP Usage Factors (Cont'd) (T)

(M)

(5) The customer will calculate and furnish to the Telephone Company a Facility PVU factor representing the whole number percentage of the customer's total monthly recurring switched transport charges that are associated with the intrastate access MOU included in the PVU factor. (N) (N)

(6) The customer shall not modify their reported PIU factor to account for VoIP-PSTN traffic. (T)

(7) The customer provided originating PVU, the terminating PVU and the Facility PVU shall be based on information such as the number of the customer's retail VoIP subscriptions in the state (e.g. as reported on FCC Form 477), traffic studies, actual call detail or other relevant and verifiable information which will be provided to Telephone Company upon request. (T) (C) (C)

(8) The customer shall retain the call detail, work papers and information used to develop the PVU factors for a minimum of one year. (T)

(9) If the customer does not furnish the Telephone Company with a PVU factor, the Telephone Company will utilize a PVU equal to zero. (T)

(M) Material moved to Original Page 18.1.1 of this section.

2. GENERAL REGULATIONS (Cont'd) (N)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(D) Initial Implementation of PVU Factors

(1) If the PVU factors cannot be implemented in the Telephone Company's billing systems by December 29, 2011, once the factors can be implemented, the Telephone Company will adjust the customer's bills to reflect the PVU factors prospectively in the next bill period, if the PVU factors are provided by the customer to the Telephone Company prior to April 15, 2012.

(2) The Telephone Company may choose to provide credits based on the reported PVU factors on a quarterly basis until such time as the billing system modifications can be implemented.

(E) PVU Factor Updates

The customer may update the PVU factors quarterly using the method set forth in (C)(1) and (2) preceding. If the customer chooses to submit such updates, it shall forward to the Telephone Company, no later than 15 days after the first of January, April, July and/or October of each year, revised PVU factors based on data for the prior three months, ending the last day of December, March, June and September, respectively. The revised PVU factors will serve as the basis for future billing and will be effective on the next bill date, and shall serve as the basis for subsequent monthly billing until superseded by new PVU factors. No prorating or backbilling will be done based on the updated PVU factors.

(F) PVU Factor Verification

(1) Not more than twice in any year, the Telephone Company may request from the customer an overview of the process used to determine the PVU factors, the call detail records, description of the method for determining how the end user originates or terminates calls in IP format, and other information used to determine the customer's PVU factors furnished to the Telephone Company in order to validate the PVU factors supplied. The customer shall comply, and shall reasonably supply the requested data and information within 15 days of the Telephone Company's request. (N)

2. GENERAL REGULATIONS (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(F) PVU Factor Verification (Cont'd)

(2) The Telephone Company may dispute the customer's PVU factor based upon:

(a) A review of the requested data and information provided by the customer, or customer's refusal to provide the data and information to support the PVU factors. (C) (C)

(b) The Telephone Company's reasonable review of other market information, FCC reports on VoIP lines, such as FCC Form 477 or state level results based on FCC Local Competition Report or other relevant data.

(c) A change in the reported PVU factor by more than five percentage points from the preceding quarter.

(3) If after review of the data and information, the customer and the Telephone Company establish revised PVU factors, the customer and the Telephone Company will begin using those revised PVU factors with the next bill period. (T)

(4) If the dispute is unresolved, the Telephone Company may initiate an audit. The Telephone Company shall limit audits of the customer's PVU factor to no more than twice per year. The customer may request that the audit be conducted by an independent auditor. In such cases, the associated auditing expenses will be paid by the customer.

(a) In the event that the customer fails to provide adequate records to enable the Telephone Company or an independent auditor to conduct an audit verifying the customer's PVU factors, the Telephone Company will bill the usage and associated facilities for all contested periods using the most recent undisputed PVU factors reported by the customer. If no undisputed PVU factors exist, then PVU factors of zero percent will be used for all contested periods. These PVU factors will remain in effect until the audit can be completed. (C) (C)

2. GENERAL REGULATIONS (Cont'd) (N)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(F) PVU Factor Verification (Cont'd)

(4) (Cont'd)

(b) During the audit, the undisputed PVU factors from the previous reporting period will be used by the Telephone Company.

(c) The Telephone Company will adjust the customer's PVU factors based on the results of the audit and implement the revised PVU in the next billing period or quarterly report date, whichever is first. The revised PVU factors will apply for the next two quarters before new factors can be submitted by the customer.

(d) If the audit supports the customer's PVU factors, the usage for the contested periods will be adjusted to reflect the customer's audited PVU factors. (N)

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances

2.4.1 Payment of Rates, Charges and Deposits

(A) The Telephone Company may, in order to safeguard its interests, require a Customer that has a 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. That deposit will be held by the Telephone Company as a guarantee of the payment of rates and charges. No such deposit will be required if a Customer is a successor to a company that has established credit and has no history of late payments to the Telephone Company. The deposit will not exceed the anticipated charges for the service and facilities 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 advance payments or the prompt payment of bills. After 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 that may remain will be refunded. A deposit will be refunded or credited to the Customer's account after the Customer has established credit or in any event after customer has established a timely payment record for 12 consecutive months. For the period a cash deposit is held by the Telephone Company, the Customer will receive interest, at the same rate as is set forth in Section 2.4.1(D) for late payment charges. A deposit given in connection with Special Construction under Section 10 or Specialized Service or Arrangements under Section 7 shall be treated in accordance with those tariff provisions.

(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 (e.g., Special Access and Switched Access Entrance Facility, Direct-Trunked Transport and Multiplexing) except for charges associated with service usage (e.g., Tandem-Switched Transport and Local Switching) or with service to the Federal Government, which will be billed in arrears, the bill date shall be printed on the bill. Adjustments for the quantities of services established or discontinued in any billing period, after the expiration of the minimum period for the service (as set forth in this tariff), will be prorated to the number of days or major fraction of days based on a 30-day month. To assist the Customer in verifying a bill, the Telephone Company will provide upon Customer's request figures and calculations used by the Telephone Company in rendering the bill to the Customer including information related to the calculation of the subscriber ratio.

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(C) Payment of bills must result in immediately available funds on or before the payment due date. The payment due date shall be the 30th day following the bill date, provided that if such 30th day falls on a Saturday, Sunday or legally observed 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, Columbus Day or Martin Luther King's Birthday is legally observed), payment will be due as follows:

(1) If such 30th day falls on a Sunday or on a holiday observed on a Monday, the payment due date shall be the first non-holiday day following such Sunday or holiday; or

(2) If such 30th day falls on a Saturday or on a holiday observed on Tuesday, Wednesday, Thursday or Friday, the payment due date shall be the last non-holiday day preceding such Saturday or holiday.

(D) If any amount due is received by the Telephone Company after the payment due date or if any amount due is received by the Telephone Company in funds not immediately available to the Telephone Company on or before the payment due date, then a late payment charge shall be assessed. The late payment charge shall be such amount due times a late factor. The late factor shall be the lesser of:

(1) The highest interest rate (in decimal value) permissible under state law for commercial transactions in the state where the services were provided, compounded daily for the number of calendar days from the payment due date to and including the date Telephone Company actually receives the payment in immediately available funds, or

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(D) If any amount due is received … (Cont'd)

(2) 0.000407 per day, compounded daily for the number of calendar days from the payment due dates to and including the date that Telephone Company actually receives the payment in immediately available funds. (R)

If Customer does not receive a bill at least 20 days prior to the payment due date, upon request of Customer submitted with proof of such late receipt of the bill, the late payment charge shall not apply for the number of days the bill was late.

Such proof includes but is not limited to the received date stamp of the customer on the bill along with certification of the Accounts Payable supervisor of the Customer that the received date stamp is accurate.

(E) If a billing dispute arises, Customer shall pay the disputed amount by the payment due date and notify Telephone Company in writing of the dispute. Disputed amounts paid after the payment due date are subject to late payment charges. If the dispute is ultimately resolved in favor of Customer, Telephone Company shall refund the overpayment, including any late payment charges collected by Telephone Company with respect to the overpayment, plus interest at the rate prescribed for late payment charges in Section 2.4.1(D). For claims filed with the Telephone Company within four (4) months of the payment date, interest will be paid from the date the Customer pays the bill to the date the refund is made. For claims filed with the Telephone Company more than four months after the payment date, interest will be paid from the claim date to the date the refund is made.

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.2 Minimum Periods

The minimum period for which service is provided and for which rates and charges are applicable is one month unless a different minimum period is established elsewhere in this tariff. When a service is discontinued prior to the expiration of the minimum period, a charge is applicable for the remaining portion of the minimum period, whether the service is used or not, and will be based on the rates in effect for the service at the time of discontinuance. In instances where the minimum period is more than thirty (30) days, the charge will be the lesser of the Telephone Company's non-recoverable costs less the net salvage value, if any, for the discontinued service or the total monthly charges at the rates in effect at the time service is discontinued unless otherwise provided elsewhere in this tariff.

2.4.3 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. For certain Special Access Services (Digital Data, and High Capacity), any period during which the error performance is below that specified for the service will be considered as an interruption. Except as otherwise provided, an interruption period starts when the Telephone Company becomes aware of the inoperative service, regardless of when it is reported by the Customer, and ends when the service is operative.

For purposes of administering the following regulations a "major fraction" means more than half of the incremental credit period using the unit of time in which the service interruption is measured, i.e., 30 seconds, 5 minutes. For example, a major fraction for a 30-minute period equals 16 minutes and for a 5 minute period equals 2 minutes and 31 seconds.

In case of an interruption to any service, allowance for the period of interruption shall be as follows:

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

(A) General (Cont'd)

(1) For Switched Access Entrance Facilities and Direct-Trunked Transport, Switched Access OptiPoint Services and for services other than those mentioned in 2.4.3(A)(3) or (5), no credit shall be allowed for an interruption of less than thirty (30) minutes. The Customer shall be credited for an interruption of thirty (30) minutes or more at the rate of 1/1,440 of the monthly charge for the service for each period of thirty (30) minutes or major fraction thereof that the interruption continued from the time that an interruption period starts. (C)

(2) Reserved For Future Use (C)
(D)
(D)

(3) For Switched Access Service credit allowances for interruptions apply only to the applicable monthly rates or the assumed minutes of use charge, whichever is applicable to the service involved. No credit allowance 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 any applicable monthly rate or assumed minutes of use charge for each period of 24 hours or major fraction thereof that the interruption continues.

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

(5) Service interruptions for Specialized Service or Arrangements provided under the provisions of Section 7 shall be administered in the same manner as those set forth in 2.4.3 unless other regulations are specified with the individual case filing.

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

(B) 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 which continue because of the failure of the Customer to authorize replacement of any element of Special Construction, as set forth in Section 10.

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

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

(C) 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.

(D) Temporary Surrender of a Service

In certain instances, the Customer may be requested 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 determined in the same manner as a credit for service interruptions as set forth in Section 2.4.3(A).

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company or Rate Schedule is Involved

When ordering, rating and billing of Access Services under this tariff involves more than one Exchange Telephone Company or rate schedule, the telephone companies involved will mutually agree upon one of the billing methods as set forth in (A) or (B) following based upon the interconnection arrangements between the Telephone Companies and the availability of measurement capability.

The Telephone Company will notify the customer which billing method will be used when the customer orders Access Service. In addition, the Telephone Company will provide the customer written notice of a change in billing method no later than 30 days prior to the implementation of such change.

The billing method set forth in (A) following is applicable only to interconnection arrangements between Exchange Telephone Companies involved in the provision of Feature Group A Switched Access Service where the Exchange Telephone Companies have not agreed to use multiple company billing. The billing methods set forth in (B) following are applicable to interconnection arrangements between Exchange Telephone Companies involved in the provision of all Access Services, with the exception of those instances where the provisions of (A) are available.

In accordance with the Federal Communications Commission's Memorandum Opinion and Order in CC Docket No. 86-106, adopted July 20, 1987, the Telephone Company will adhere to the standards set forth in the Multiple Exchange Carrier Access Billing (MECAB) and the Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines when providing access service under Multiple Company (Interconnection Point) Billing arrangements.

The Exchange Telephone Companies involved in providing the Access Service, will develop a mutually agreeable working arrangement to allow one of the Exchange Telephone Companies to perform "Access Service Coordination" (ASC) for all services requested.

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) Single Company Billing (FGA Only)

When Feature Group A 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, the Exchange Telephone Company in whose territory the first point of switching is located will accept the order. The 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.

(B) Multiple Company (Interconnection Point) Billing

When an Access Service ordered by a customer involves more than one Exchange Telephone Company or rate schedule, the Exchange Telephone Companies involved will agree upon one of the following billing methods:

Single Bill Method: The Exchange Telephone Companies involved will mutually agree upon a "billing company" which will render the bill for the Access Service provided. The designated billing company will perform the "Access Service Coordination" (ASC) function for the service requested, determine the applicable charges, and bill the customer for the entire service in accordance with its Access Service tariff. The designated billing company will be billed by the other Exchange Telephone Companies involved for the portion of the Access Service they provide **in Single Bill/Single Tariff or Single Bill/Multiple Tariff options.** (C) (C)

Multiple Bill Method: Each Exchange Telephone Company involved will provide the portion of the service in its operating territory and bill the customer in accordance with its Access Service tariff.

(1) When a Feature Group A Switched Access Service is ordered by a customer where one end of the Transport element is in the Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, the Exchange Telephone Company in whose operating territory the first point of switching is located will accept the order. In addition, the Exchange Telephone Company in whose operating territory the customer point of termination is located must also receive a copy of the order from the customer. Each Exchange Telephone Company will provide the portion of the transport element in its operating territory to an interconnection point with another Exchange Telephone Company and will bill the charges in accordance with its Access Service tariff.

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Multiple Company (Interconnection Point) Billing (Cont'd)

(2) When Feature Group B, C, and/or D Switched Access Service and/or Directory Assistance Service is ordered by a customer where one end of the Transport element is in the Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, the orders shall be received as follows:

(a) For Feature Group C Switched Access Service and/or Directory Assistance Service, the Exchange Telephone Company in whose operating territory the end office is located must receive the order from the customer.

(b) For Feature Group B and/or D Switched Access Service ordered to an end office, the Exchange Telephone Company in whose operating territory the end office is located must receive the order from the customer.

(c) For Feature Group B and/or D Switched Access Service ordered to an access tandem, the Exchange Telephone Company in whose operating territory the access tandem is located must receive the order from the customer.

(d) For the Service ordered set forth in (a), (b) and (c) preceding, the Exchange Telephone Company in whose operating territory the customer point of termination is located must also receive a copy of the order from the customer.

Each Exchange Telephone Company will provide the portion of the Transport element in its operating territory to an interconnection point with another Exchange Telephone Company and will bill the charges in accordance with its Access Service tariff. The rate for the Transport element will be determined as set forth in (8) following. All other appropriate charges in each Exchange Telephone Company tariff are applicable.

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Multiple Company (Interconnection Point) Billing (Cont'd)

(3) When a Special Access Service utilized for connection with Switched Access Service is ordered and a Transport element applies (i.e., the WATS serving office and the end user customer end office are not coterminous) and one end of the Transport element is in the Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, the Exchange Telephone Company in whose operating territory the end office is located must receive the order from the customer. In addition, the Exchange Telephone Company in whose operating territory the WATS Serving Office is located must also receive a copy of the order from the customer. Each Exchange Telephone Company will provide the portion of the Transport element in its operating territory to an interconnection point with another Exchange Telephone Company and will bill the charges in accordance with its Access Service tariff. The rate for the Transport element will be determined as set forth in (8) following. All other appropriate charges in each Exchange Telephone Company tariff are applicable.

(4) When a Special Access Service is ordered by a customer where one end of the Channel Mileage is in the Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, except for Special Access Service provided with the use of Hubs, either of the Exchange Telephone Companies may receive the order from the customer. In addition, the other Exchange Telephone Company must receive a copy of the order from the customer. Each Exchange Telephone Company will provide the portion of the Channel Mileage element in its operating territory to an interconnection point (IP) with another Exchange Telephone Company and will bill the charges in accordance with its Access Service tariff. The rate for the Channel Mileage element will be determined as set forth in (8) following. All other appropriate charges in each Exchange Telephone Company tariff are applicable.

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Multiple Company (Interconnection Point) Billing (Cont'd)

(5) When a Special Access Service involving a Hub is ordered by a customer where one end of the Channel Mileage element is in an Exchange Telephone Company operating territory and the Hub is in another Exchange Telephone Company operating territory, the Exchange Telephone Company in whose operating territory the Hub is located must receive the order from the customer. In addition, the Exchange Telephone Company in whose operating territory a customer premises is located must receive copies of the order from the customer. Each Exchange Telephone Company will provide the portion of the Channel Mileage element in its operating territory to an interconnection point (IP) with another Exchange Telephone Company and will bill the charges in accordance with its Access Service Tariff. The rate for the Channel Mileage element will be determined as set forth in (8) following. All other appropriate charges in each Exchange Telephone Company tariff are applicable.

(6) When a Feature Group A, B, C and/or D Switched Access Service is ordered by a customer where both ends or an end and an interconnection point of the Transport Element are in the same Telephone Company operating territory and same exchange but in different states which have different rate schedules, the Telephone Company will accept the order in the state where the first point of switching is located. When a Special Access Service utilized for connection with Switched Access Service is ordered and a Transport element applies and both ends or one end and an interconnection point of the Transport element are in the same Telephone Company operating territory and same exchange but in different states which have different rate schedules, the Telephone Company will accept the order in the state where the WATS Serving Office is located. The Telephone Company will provide the service ordered and will bill the portion of the service in each state in accordance with the rate schedule for that state. An Interconnection point will be determined by the Telephone Company and will be used to determine the billing for each state. The rate for the Transport element will be determined as set forth in (8) following.

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Multiple Company (Interconnection Point) Billing (Cont'd)

(7) When a Special Access Service, including those involving a hub, but excluding those ordered for connection with Switched Access Service, is ordered by a customer where both ends of the Channel Mileage element, an end of the Channel Mileage element and an interconnection point, an end of the Channel Mileage element and a hub or interconnection point and a hub are in the same Telephone Company operating territory and the same exchange but in different states which have different rate schedules, the Exchange Telephone Company will accept the order in either state except for orders involving hubs. For orders involving a hub the order must be placed in the state where the hub is located. An interconnection point will be determined by the Exchange Telephone Company and will be used to determine the billing for each state. All appropriate charges in each state rate schedule are applicable. The rate for the Channel Mileage element will be determined as set forth in (8) following.

(M)

(M) – Data previously appearing on this page was moved to Page 30.1

(M)

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Multiple Company (Interconnection Point) Billing (Cont'd) (M)

(8) When Terminating Tandem Switched Transport is provided through a CenturyLink Operating Company (CLOC) ILEC Access Tandem and the Terminating End Office is not owned by a CLOC ILEC or through an ILEC Access Tandem not owned by a CLOC ILEC and the Terminating End Office is owned by a CLOC ILEC, Terminating – Tandem 3rd Party rates are applicable; otherwise, Terminating – Tandem End Office rates are applicable. When originating Tandem Switched Transport is provided, Originating rates are applicable. The rate for the Switched Access Direct-Trunked Transport and Tandem-Switched Transport or Special Access Channel Mileage per mile element for services provided as set forth in (1) through (7) preceding is determined as follows: (N) (N)

(a) Determine the appropriate switched transport or channel mileage by computing the airline mileage between the two ends of the switched transport or channel mileage. Determine the airline mileage for the Tandem-Switched Transport per mile element using the V & H method as set forth in Section 4.6.12 following. Determine the airline mileage for the Direct-Trunked Transport and Channel Mileage per mile element using the V & H method as set forth in Section 5.4.4 following.

(b) Determine the rate for the airline mileage determined in (a) preceding using the Telephone Company's tariff. Multiply such rate by the Telephone Company's billing percentage factor and divide by 100 to obtain the switched transport or channel mileage per mile element charges.

(9) The interconnection points will be determined by the Exchange Telephone Companies involved. The billing percentage factor for the Telephone Company for the service between the two involved offices is listed in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. (M)

(M) – Certain data appearing on this page was moved from Page 30.

2. GENERAL REGULATIONS (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(C) Example 1: Originating Switched Access (D) (C)
(See Diagram 1)

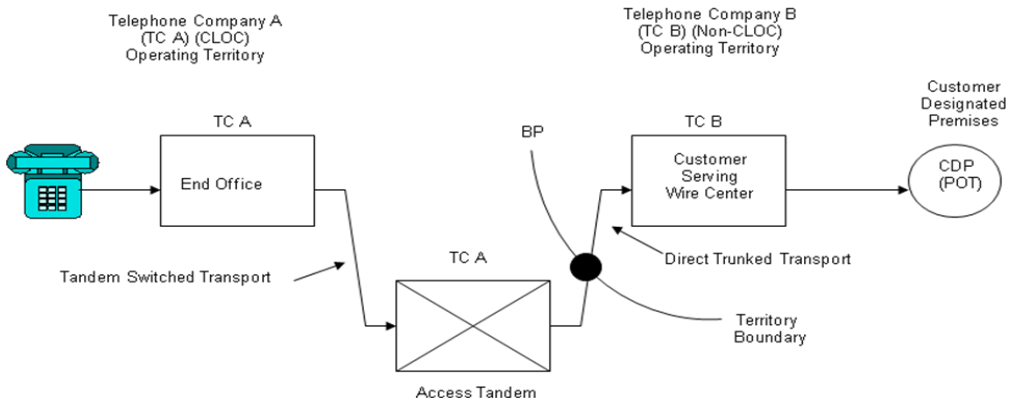
- Feature Group D Switched Access is ordered to End Office.

- Originating End Office and Access Tandem are in the operating territory of a Telephone Company (TC-A).

- Customer Designated Premises is in the operating territory of a Telephone Company (TC-B).

- Assumptions:
  - TC-A Direct Trunked Transport BP = 40%
  - TC-B Direct Trunked Transport BP = 60%
  - Direct Trunked Transport mileage = 26 mi.
  - Tandem Switched Transport mileage = 23 mi.

Diagram 1



(D) (C)

2. GENERAL REGULATIONS (Cont'd) (N)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(C) Example 1: Originating Switched Access (Cont'd)
(See Diagram 1)

Telephone Company A charges are:

End Office charges = 9,000 min. x EO rate

Tandem Switched Facility charge
= 9,000 min. x 23 mi. x TSF rate

Tandem Switched Termination charge
= 2 terminations x 9,000 min. x TST rate

Tandem Switching charge
= 9,000 min x TS rate

Direct Trunked Facility charge
= 26 miles x DTF rate x 40%

Direct Trunked Termination charge
= 1 termination x DTT rate

Common Transport Multiplexing charge
= 9,000 min x CTM rate (N)

2. GENERAL REGULATIONS (Cont'd) (N)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(D) Example 2: Terminating Switched Access – Tandem 3rd Party
(See Diagram 2A and 2B)

- Feature Group D Switched Access is ordered to End Office.

- Terminating Access Tandem is owned by CLOC ILEC carrier (TC-A) and End Office is owned by a non-CLOC ILEC carrier (TC-B)

- Assumptions:

  - TC-A Direct Trunked Transport BP = 40% (where applicable Diagram 2A)
  - TC-B Direct Trunked Transport BP = 60% (where applicable Diagram 2A)
  - Direct Trunked Transport mileage = 26 mi.
  - TC-A Tandem Switched Transport BP = 20%
  - TC-B Tandem Switched Transport BP = 80%
  - Tandem Switched Transport mileage = 23 mi.

(N)

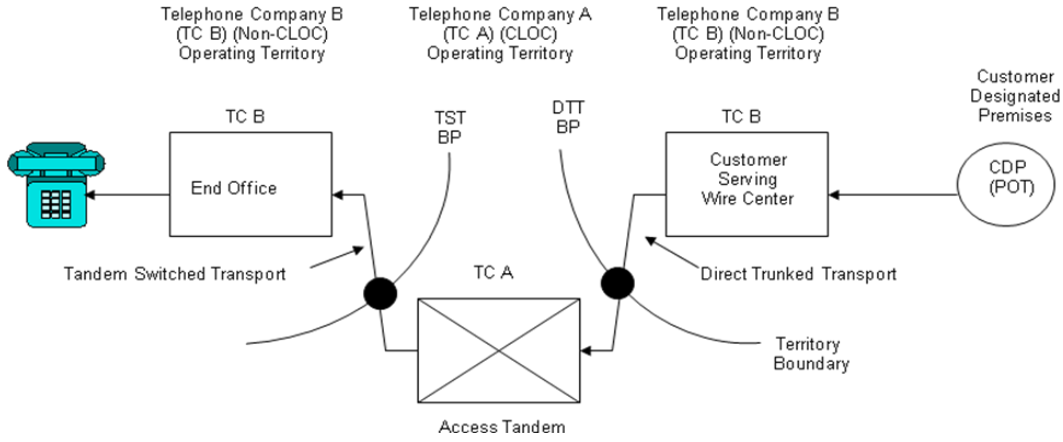
2. GENERAL REGULATIONS (Cont'd) (N)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

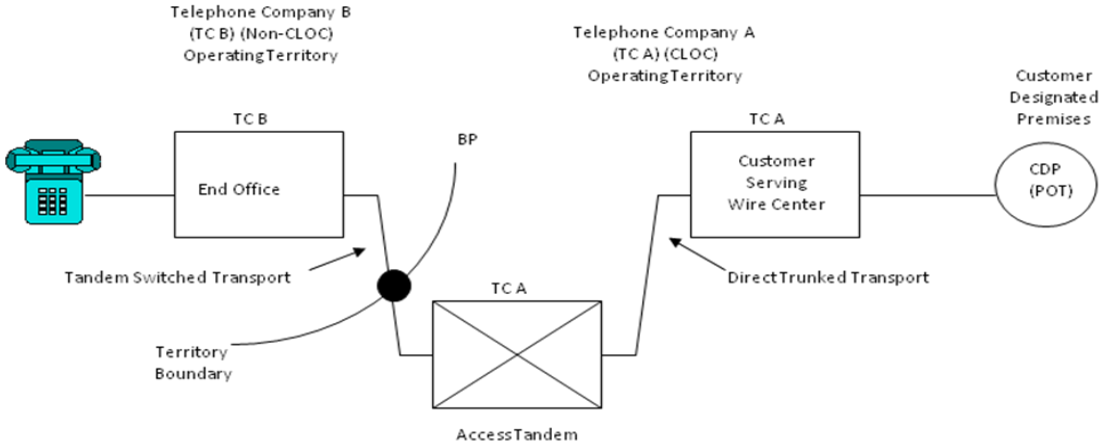
2.4.4 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company or Rate Schedule is Involved (Cont'd)

(D) Example 2: Terminating Switched Access – Tandem 3rd Party (Cont'd)
(See Diagram 2A and 2B)

- Diagram 2A



- Diagram 2B



BP = Billing Percentage

(N)

2. GENERAL REGULATIONS (Cont'd) (N)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(D) Example 2: Terminating Switched Access – Tandem 3rd Party (Cont'd)
(See Diagram 2A and 2B)

Example 2 Telephone Company A charges are:

Tandem Switched Facility – 3rd Party charge
= 9,000 min. x 23 mi. x TSF-3rd Party rate x 20%

Tandem Switched Termination – 3rd Party charge
= 1 termination x 9,000 min. x TST-3rd Party rate

Tandem Switching – 3rd Party charge
= 9,000 min. x TS-3rd Party rate

Direct Trunked Facility charge
2A = 26 miles x DTF rate x 40%
2B = 26 miles x DTF rate

Direct Trunked Termination charge
2A = 1 termination x DTT rate
2B = 2 termination x DTT rate

Common Transport Multiplexing – 3rd Party charge
= 9,000 min x CTM-3rd Party rate

(N)

2. GENERAL REGULATIONS (Cont'd) (N)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(E) Example 3: Terminating Switched Access – Tandem End Office (See Diagram 3)

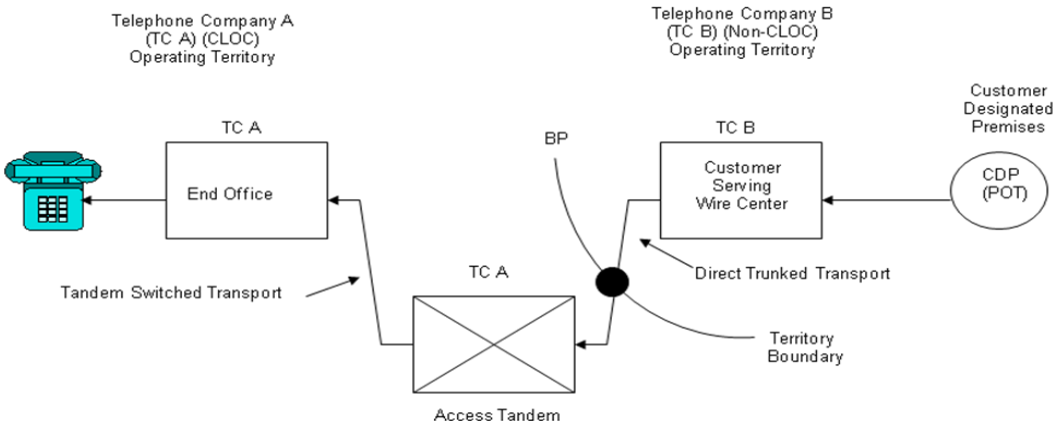
- Feature Group D Switched Access is ordered to End Office.

- Terminating End Office and Access Tandem are both owned by a CLOC ILEC (TC-A)

- Assumptions:

○ TC-A Direct Trunked Transport BP = 40%
○ TC-B Direct Trunked Transport BP = 60%
○ Direct Trunked Transport mileage = 26 mi.
○ Tandem Switched Transport mileage = 23 mi.

Diagram 3



(N)

2. GENERAL REGULATIONS (Cont'd) (N)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(E) Example 3: Terminating Switched Access – Tandem End Office (Cont'd)
(See Diagram 3)

Telephone Company A charges are:

End Office Charges = 9,000 min. x EO rate

Tandem Switched Facility – End Office charge
= 9,000 min. x 23 mi. x TSF-End Office rate

Tandem Switched Termination – End Office charge
= 2 terminations x 9,000 min. x TST-End Office rate

Tandem Switching – End Office charge
= 9,000 min. x TS-End Office rate

Direct Trunked Facility Charge
= 26 miles x DTF rate x 40%

Direct Trunked Termination charge
= 1 termination x DTT rate

Common Transport Multiplexing – End Office charge
= 9,000 min x CTM-End Office rate

(N)

2. GENERAL REGULATIONS (Cont'd) (N)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

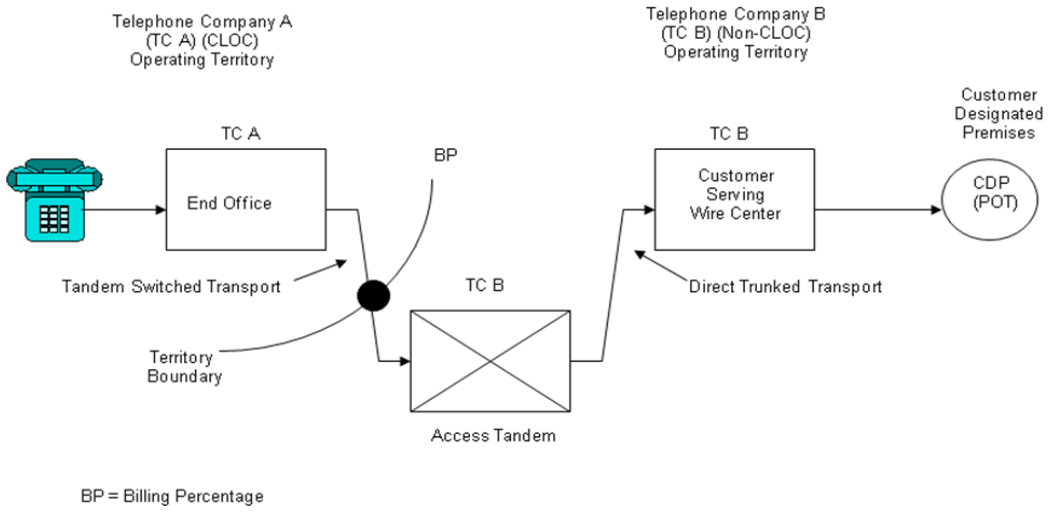
2.4.4 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company or Rate Schedule is Involved (Cont'd)

(F) Example 4: Originating Switched Access – CLOC owns only the End Office
(See Diagram 4)

- Feature Group D Switched Access is ordered to End Office
- End Office is owned by CLOC (TC-A)
- Access Tandem is owned by a non-CLOC ILEC (TC-B)
- Assumptions:

  - Direct Trunked Transport mileage = 26 mi.
  - TC-A Tandem Switched Transport BP = 80%
  - TC-B Tandem Switched Transport BP = 20%
  - Tandem Switched Transport mileage = 23 mi.

Diagram 4



(N)

2. GENERAL REGULATIONS (Cont'd) (N)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(F) Example 4: Originating Switched Access – CLOC owns only the End Office (Cont'd)
(See Diagram 4)

Telephone Company A charges are:

End Office charges = 9,000 min. x EO rate

Tandem Switched Facility charge
=9,000 min. x 23 mi. x TSF rate x 80%

Tandem Switched Termination charge
= 1 termination x 9,000 min. x TST rate (N)

2. GENERAL REGULATIONS (Cont'd) (N)

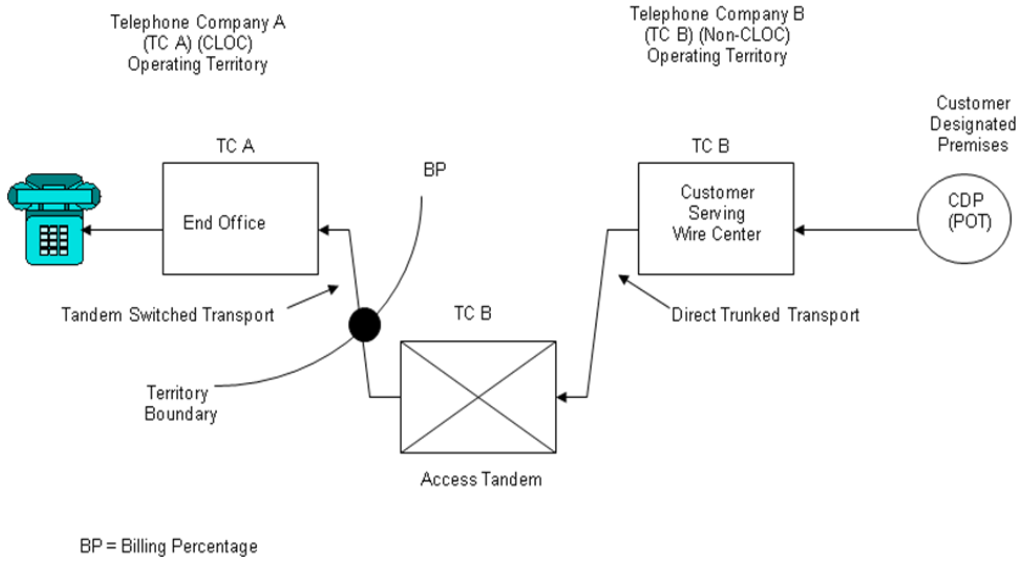
2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(G) Example 5: Terminating Switched Access – Tandem 3rd Party
(See Diagram 5)

- Feature Group D Switched Access is ordered to End Office
- End Office is owned by Telephone Company (CLOC) (TC-A)
- Access Tandem is owned by a non-CLOC ILEC (TC-B)

Diagram 5



(N)

2. GENERAL REGULATIONS (Cont'd) (N)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(G) Example 5: Terminating Switched Access – Tandem 3rd Party (Cont'd)
(See Diagram 5)

Telephone Company A charges are:

End Office charges = 9,000 min. x EO rate

Tandem Switched Facility 3rd Party charge
= 9,000 min. x 23 mi. x TSF-3rd Party rate x 80%

Tandem Switched Termination 3rd Party charge
= 1 termination x 9,000 min. x TST-3rd Party rate (N)

2. GENERAL REGULATIONS (Cont'd)

(D)

(D)

2.5 Connections

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

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions

Certain terms used herein are defined as follows:

Access Code

See “Carrier Access Code” (CAC)

Access Minutes

The term "Access Minutes" denotes that usage of exchange facilities in intrastate or foreign service for the purpose of calculating chargeable usage. On the originating end of an intrastate or foreign 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 or foreign 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 or foreign 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 traffic concentration and distribution function for traffic originating from or terminating to an end office serving a Customer designated premises.

Alternative Billing Service

Alternate Billing Service (ABS) provides end users the ability to bill calls to an account not necessarily associated with the originating line.

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 point of termination for terminating calls to the exchange as an indication that the called party has answered or disconnected.

Attentuation Distortion

The term "Attentuation Distortion" denotes the difference in loss at specified frequencies relative to the loss at 1004 Hz.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

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 8:30 A.M. to 5:00 P.M., with an hour for lunch, Monday through Friday, resulting in a standard forty-hour (40) workweek.

Byte

8 bits of data also referred to as an octet.

Call

The term "Call" denotes a communication, including an off-hook signal and routing Information initiated by a Customer (calling party) and completed to a Directory Assistance Service access location or End User (called party) or to a Customer designated premises.

Carrier Access Code (CAC)

The term "Carrier 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, 950-10XX or 950-00XX. The 101XXXX Access Code will be provided where technically feasible.

Carrier Identification Code (CIC)

The term “Carrier Identification Code” denotes numeric codes that are assigned to an IC for use with Feature Groups B and/or D Switched Access Service.

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 lines or trunks.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

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 Code

The term "Central Office Code" denotes the first three digits (NXX) of the 7-digit telephone number assigned to a Customer's Telephone Exchange Service.

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.

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 errors, remote loop back.

Channelize

The term "Channelize" denotes the process of multiplexing-demultiplexing channels using analog or digital techniques.

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 set 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.

Clear Channel Capability

The term "Clear Channel Capability" denotes the transport of twenty-four, 64 Kbps channels over a 1.544 Mbps High Capacity Service via B8ZS line code format.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Common Line

The term "Common Line" (also referred to as "subscriber line") denotes a line, trunk, pay telephone line or other facility provided under the General and/or Local Exchange Service 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 General and/or Local Exchange Service tariffs. A common line-business is a line provided under the business regulations of the General and/or Local Exchange Service tariffs. A common line-pay telephone is a line provided under the public, semi-public and inmate service regulations of the General and/or Local Exchange Service tariffs of the Telephone Company. The investment associated with common lines is considered jointly used subscriber plant.

Common Trunk Port

The term “Common Trunk Port” denotes the termination of shared access trunks when traffic is routed through the access tandem.

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 or Telephone Company stations.

Completed Call

The term "Completed Call" denotes a call in which answer supervision is received from the called location.

Cost

Except as provided otherwise in this tariff, the term "cost" denotes all sums expended directly by the Telephone Company to provide particular facilities and/or services to a user, plus a pro-rata share of the cost to the Telephone Company of its facilities and personnel, including general and administrative costs, used in the provision of the facilities and/or services, plus a reasonable profit.

Customer(s)

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

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Customer Designated Premises

The term "Customer Designated Premises" denotes the premises specified by the customer for the provision of Access Service.

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 (dB)

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 Referenced to 0 (dBrnC)

The term "Decibel Reference Noise C-Message Referenced to 0" denotes noise measurements with C-Message weighting in decibels relative to a reference tone of 90 dB below 1 milliwatt.

Dedicated Trunk Port

The term “Dedicated Trunk Port” denotes the termination of Feature Group B and D access trunks to an end office when provided as a trunk side arrangement or to the access tandem at the serving wire center side of the switch.

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.

Digital Cross Connect Service (DCCS)

The term "Digital Cross Connect Service" denotes a type of special access optional feature that offers customers flexibility in configuring and reconfiguring high capacity, digital data, and voice grade services.

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.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Echo Path Loss (EPL)

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 (TLP).

Echo Return Loss (ERL)

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 premises or central office.

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 each other and to trunks.

End User

"End User" means any Customer of an intrastate or foreign 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.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Entry Switch

See First Point of Switching

Envelope Delay Distortion (EDD)

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

Equal Level Echo Path Loss (ELEPL)

The term "Equal Level Echo Path Loss" denotes the measure of Echo Path Loss (EPL) at a 4-wire interface that is corrected by the difference between the send and receive TLP. [ELEP=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 that 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. The exchange includes any Extended Area Service area that is an enlargement of a Telephone Company's exchange area to include nearby exchanges. One or more designated exchanges comprise a given local access and transport area.

Expected Measured Loss (EML)

The term "Expected Measured Loss" denotes a calculated loss which specified the end-to-end 1004Hz transducer loss on a terminated test connection between two readily accessible manual or remote test points.

Firm Order Confirmation (FOC) Date

The term “Firm Order Confirmation Date” denotes the date on which the Telephone Company confirms to the Customer that the requested services can be provided. (T)

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 designated 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 designated premises.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Frequency Shift

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

Geographically Aggregated Rate (GAR) (N)

The term "Geographically Aggregated Rate" denotes a situation in which the rates and charges for a service offering, for which there is currently no demand, are developed based upon the aggregated total revenue and demand for more than one study area. Upon receipt of a request for service, the current geographically averaged rates will be redeveloped to include the new study area.

Example: Study areas A, B, and C have been geographically aggregated. Geographically averaged rates for A and B were developed based on their aggregated total revenue and demand, while Area C, marked "GAR", has no current demand. Should C receive a request for service, the current geographically averaged rates will be redeveloped to include C's revenue and demand. The redeveloped rates and charges will now be applicable to customers in A, B, and C. (N)

Grandfathered

The term "Grandfathered" denotes station or switching equipment 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 FCC Rules and Regulations.

Hub

A Hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed may be used to connect three or more customer-designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

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.

(M)

(M)

(M) Material omitted from this page now appears on Page 40.1

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Impulse Noise (M)

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.

Independent Marketing Area (IMA)

(See "Local Access and Transport Area")

Individual Case Basis (ICB)

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 (ICL)

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

(M) This material previously appeared on Page 40.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Interexchange Carrier(s) (IC)

The term "Interexchange Carrier(s)" denotes any individual, partnership, association, corporation, or governmental agency or any other entity engaged for hire in intrastate or foreign 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 dBs) of the transmitted composite four-tone signal power to the second-order products of the tones (R3).

Interstate Communications

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

Interstate Service Arrangement

The term "Interstate Service Arrangement" denotes an arrangement provided pursuant to interstate tariffs, contracts or service arrangement whereby the subscriber who obtains the arrangement permits others to make calls to the telephone number assigned to the arrangement without charges.

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.

Jointly Used Subscriber Plant

The term "Jointly Used Subscriber Plant" denotes the local nontraffic sensitive facilities which provide connection between the Customer's service location and the exchange central office serving the Customer and which may alternatively be used to place exchange service calls, interexchange intrastate service calls, or interexchange interstate service calls with no change in the nature of the facilities.

Line Information Data Base

The Line Information Data Base (LIDB) is a data base containing billing validation data to support Alternative Billing Services.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

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 operating unit by means of which local or access telephonic communications are switched to and from an end office switch.

Loop Around Test Line

The term "Loop Around Test Line" denotes an arrangement of equipment located on the facility between the test location and the remote loop around test unit in an end office which provides a means for making two-way transmission tests, on a manual basis. This arrangement has two terminations, each reached by means of a separate seven-digit number and does not include network channel terminating equipment.

Loss Deviation

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

Maintenance Test Unit (MTU)

The term "Maintenance Test Unit" denotes a piece of equipment installed and maintained by the Telephone Company near the end of a transmission path on the central office side of a Customer's premises. Upon proper command, the Maintenance Test Unit can isolate a Customer's wire and terminal equipment from the network loop. It enables remote testing of the transmission path's performance to the MTU.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

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 1004Hz tone at 0 dBm0 for one-way transmission measurements towards the Customer designated premises from the Telephone Company end office.

Minutes of Use

See Access Minutes

Multiline Business Customer

The term "Multiline Business Customer" denotes an End User who is provided with more than one Common Line-business line in a state by the same Telephone Company under the business regulations of the General and/or Local Exchange Service tariffs of the Telephone Company.

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 re-order or busy conditions, alerting, coin denominations, coin collect and coin return tones) to control the operation of the telecommunications system.

Non-Toll Free (N)

All calls that are not toll free (8YY) as established by the FCC's 8YY Access Charge Reform Order (FCC 20-143) released on October 9, 2020. (N)

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 or Numbering Plan Area (NPA) code and seven-digit telephone number made up to a three-digit Central Office (CO) code plus a four-digit station number.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Off-hook

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

On-hook

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

Open Circuit Test Line

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

Operator Service System (OSS)

The term "Operator Service System" (OSS) denotes the group of interacting hardware (switching equipment, data links, and operator terminals) and software components for the provision of operator service functionality.

Optical Carrier Level (n) (OC n) (N)

The term "Optical Carrier Level (n)" denotes the physical line connection (aka facility) between two locations that uses optical signaling equipment for transmitting information over fiber optics. A level of bit rate speed transmission is indicated by "n". OC1 optical transmissions are at 51.84 Mbps; OC3 at 155.52 Mbps; OC12 at 622.08 Mbps; and OC48 at 2488.32 Mbps.

Optical Carrier Level n Concatenated (OCnc)

The term "Optical Carrier Level n Concatenated" denotes the physical line or clear channel connection (aka facility) between two locations that is capable, using optical signaling equipment, of replacing multiple payload groupings into one larger payload grouping, resulting in a single communications channel.

Optical Carrier Rate (OC#)

The term "Optical Carrier Rate" denotes a SONET transmission signal/speed, line rate or service. The rate is in multiples of an OC1, which is equivalent to a Synchronous Transport Signal (STS1), 51.84 Mbps, SONET's basic rate. OC# rate bandwidth capacity is 155.52 Mbps for OC3, 622.08 Mbps for OC12, and 2488.32 Mbps for OC48. (N)

(M)

(M) Material previously appearing on this page now appears on Page 44.1.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Optical Carrier Rate Concatenated (OC#c) (N)

The term "Optical Carrier Rate Concatenated" denotes a clear channel SONET transmission using only one framing format. For example, an OC3 signal provides three STS1 frame formats with 3 overheads for a total capacity of 2322 bytes per Synchronous Payload Envelope (SPE); in an OC3c signal, one STS3c frame format is used with one overhead, increasing the total payload capacity to 2340 bytes per SPE. (N)

Originating Direction (M)

The term "Originating Direction" denotes the use of Access Service for the origination of calls from an End User to an IC designated premises.

Originating Point Code

An originating point code is assigned to identify each Operator Service System (OSS) location.

Personal Identification Number (PIN)

A Personal Identification Number (PIN) is a confidential four-digit code number provided to a calling card customer to protect against the unauthorized use of their calling card number. The PIN is stored in the LIDB for those accounts that have an associated calling card.

Phase Jitter

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

(M) Material now appearing on this page previously appeared on Original Page 44.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Point of Termination

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

Premises

The term "Premises" denotes a building or portion(s) of a building including adjacent buildings on the same continuous property not separated by a public thoroughfare.

Primary Exchange Carrier

The term "Primary Exchange Carrier" denotes the Local Exchange Telephone Company in whose exchange a customer's first point of switching (i.e., dial tone office for FGA, access tandem for FGB) is located.

Query

A query is a request for specific information generated by a computer processor and sent to a database, with a predefined set of responses expected. (T)

Responsible Organization

The term "Responsible Organization" denotes that entity which is responsible for the management and administration of a TFC service record in the TFC Service Management System.

Return Loss

The term "Return Loss" denotes a measure of the similarity between the two impedances at the junction of two transmission channels (e.g., four-to-two-wire junctions). The higher the return loss, the higher the similarity.

Registered Equipment

The term "Registered Equipment" denotes the Customer's premises equipment which complies with and has been registered with the FCC pursuant to Part 68 of the FCC's Rules and Regulations or which is grandfathered, as defined in this Section 2.6.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Secondary Exchange Carrier

The term "Secondary Exchange Carrier" denotes the Local Exchange Telephone Company in whose exchange a customer's end users and office is located and where the customer's first point of switching is provided by a Primary Exchange Carrier who is not the same Exchange Carrier as the Secondary Exchange Carrier.

Service Control Point

A Service Control Point (SCP) is a transaction processor based system that provides a network interface to various data base services.

Service Switching Point

An end office or tandem switch equipped with the signaling link hardware and software that can perform the Signal Point functions. In addition, SSPs can identify the need for application software in processing a Common Channel Signaling/Signaling System 7 call and request and respond to call processing instructions issued by a Service Control Point.

Serving Wire Center

The term "Serving Wire Center" denotes the wire center from which the customer designated premises would normally obtain dial tone from the Telephone Company.

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.

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.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

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.

Signaling System 7 (SS7)

The term "Signaling System 7 (SS7)" denotes the layered protocol used for standardized common channel signaling in the United States.

Signal Transfer Point

The term "Signal Transfer Point" denotes a signaling point which routes and/or transfers signaling messages through the common channel signaling network.

Singing Return Loss (SRL)

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.

Single Line Business Customer

The term "Single Line Business Customer" denotes an End User who pays for an End User Common Line at a rate that is not described as a residential rate in the Telephone Company's Local Exchange Service tariffs and who does not obtain more than one such line from the same Telephone Company.

Synchronous Optical Network (SONET) (N)

The term "Synchronous Optical Network" denotes a North American standard for synchronous optical networks providing transmission rates from 51.84 Mbps. SONET uses a 51.84 Mbps STS-1 signal as the basic building block. Higher rate signals are available in direct multiples of STS-1. (N)

Synchronous Test Line

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

Synchronous Transport Signal - Level (STS1) (N)

The term "Synchronous Transport Signal - Level" denotes a 51.84 Mbps signal that is the electrical equivalent of the SONET optical based signal OC1. An STS1 can carry a DS3 or 28 DS1s when specifically formatted. However, individual DS1s within a DS3 are not accessible within SONET and their performance cannot be guaranteed for this reason. These DS1s may be accessed using the Special Access DS3 to DS1 multiplexing optional service. (N)

(M) Material previously appearing on this page now appears on Page 48.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Terminating Direction

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

Toll Free Code (TFC) (N)

The term "Toll Free Code" denotes a three-digit Numbering Plan Area (NPA) or Area Code that is specifically assigned by the Telecommunications industry for use by Telecommunications Service Providers in the provision of telephone numbers that, unlike traditional telephone numbers and calls, when dialed are toll free to the orginating caller. The specific codes assigned and used, or reserved for use, for this purpose are 800, 822, 833, 844, 855, 866, 877, and 888. (N)

Toll Free Code (TFC) Service Management System

The term "Toll Free Code Service Management System" (TFC SMS) denotes the main operations support system used to create and update TFC service records in the national TFC database.

Toll Free Code (TFC) Service Provider

The term "TFC Service Provider" denotes a telecommunications company, including local exchange carriers and interexchange carriers, or a reseller of exchange or interexchange services that offers TFC service to end users.

Toll VoIP-PSTN Traffic

The term “Toll VoIP-PSTN Traffic” denotes a customer’s interexchange voice traffic exchanged with the Telephone Company in Time Division Multiplexing format over PSTN facilities, which originates and/or terminates in Internet Protocol (IP) format. “Toll VoIP-PSTN Traffic” originates and /or terminates in IP format when it originates from and/or terminates to an end user customer of a service that requires IP-compatible customer premises equipment.

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.

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.

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(M) Material moved to Page 49.

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Trunk Group (M)

The term "Trunk Group" denotes a set of trunks that 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 such as a central office switch trunk circuit or switching system. (M)

V & H Coordinates Method

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

WATS Serving Office

The term "WATS Serving Office" denotes a Telephone Company designated serving wire center where switching, screening and/or recording functions are performed.

Wire Center

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

(M) Material moved from Page 48.

ISSUED: July 23, 2001

EFFECTIVE: July 24, 2001

3. END USER ACCESS SERVICE

The Telephone Company will provide End User Access Service (End User Access) to End Users who obtain Local Telephone Service from the Telephone Company under its General and/or Local Exchange tariffs and to End Users who obtain intrastate WATS Service.

3.1 General Description

End User Access provides for the use by an End User of an End User common line (subscriber line), or an intrastate WATS Service used to originate or terminate intrastate calls.

Use of a subscriber line is provided twenty-four (24) hours a day, seven (7) days a week.

3.2 Undertaking of the Telephone Company

The Telephone Company will provide use of a subscriber line at End User Access rates and charges as specified in Section 3.5, as follows:

(A) Use of a subscriber line by an End User in connection with intrastate Access Services provided under this tariff. Such use will be provided when the End User obtains Local Telephone Exchange Service.

(B) Use of a subscriber line by an End User for access for MTS/WATS-equivalent, operator-DDD, operator-person, collect, third number, credit card, and/or other like calls.

(C) Use of a subscriber line by a Customer for access to an intrastate service arrangement (e.g., TFC Service, NPA + 555 + 1212 Service, 900 Service, intrastate InWATS and OutWATS Service, and other similar service arrangements).

(D) Use of a subscriber line requires the facilities at the End User and IC premises to have the necessary on-hook and off-hook supervision.

3.3 Payment Arrangements and Credit Allowances

(A) Payment of Rates, Charges and Deposits

The regulations, as set forth in Section 2, apply to Customers provided with End User Access.

(B) Reserved For Future Use

3. END USER ACCESS SERVICE (Cont'd)

3.4 Rate Regulations

(A) Each End User of Local Exchange Service or WATS Service will be charged an End User Access Charge. End User Access Charges will be billed in advance.

(B) Subscriber Line-Residential rates, as set forth in Section 3.5(A), apply when the End User takes residential service under the Telephone Company's General and/or Local Exchange Service tariffs.

(C) Subscriber Line-Single Line Business rates, as set forth in Section 3.5(B), apply if the End User pays a rate that is not described as a residential rate in the General and/or Local Exchange Service tariffs of the Telephone Company and does not obtain more than one such line from the same Telephone Company.

(D) Subscriber line-Multiline Business rates, as set forth in Section 3.5(C), apply if the End User is provided with more than one business line in a state by the same Telephone Company under the business regulations of the General and/or Local Exchange Service tariffs of the Telephone Company. Subscriber Line-Multiline Business rates also apply to each interstate or intrastate WATS access line obtained by an End User.

(E) Subscriber line-Centrex CO rates, as set forth in Section 3.5(D), apply if the End User is provided with Centrex CO or Centrex CO-like services under the General and/or Local Exchange Service tariffs of the Telephone Company. Centrex CO and Centrex CO-like services (1) are provided using switches located at Telephone Company central offices and (2) link Customer main stations to the Telephone Company switch with subscriber loops.

(F) When the End User obtains Multiparty Service under the Telephone Company's General and/or Local Exchange Service tariffs, each End User is deemed to be a user of a subscriber line and will be charged the applicable rate for Multiparty Service as set forth in Sections 3.5(A), (B) and (C).

(G) For each Local Exchange Service provided as Remote Call Forwarding Residential or Business Service, under the Telephone Company's General and/or Local Exchange Service tariffs, End User Access charges do not apply.

(H) When an end user is provided a local residence exchange service and the residential local exchange rate for the end user is reduced for end users meeting a state established means test that is subject to verification, the applicable Subscriber Line-Residential rate in 3.5 following, shall be reduced by 50 percent, if the local exchange rate reduction is an equivalent amount as provided for in Paragraph 69.203(f) of Part 69 of the F.C.C. Rules and Regulations.

Central Telephone Company
of Virginia
d/b/a CenturyLink

ISSUED: May 30, 2017

EFFECTIVE: July 1, 2017

3. END USER ACCESS SERVICE (Cont'd)

3.4 Rate Regulations (Cont'd)

(D)

(D)

(I) For each local exchange service used only as a path for the transmission of Radio Common Carrier (RCC) traffic between the Telephone Company serving wire center and the RCC's radio equipment, End User Access charges do not apply. End User Access charges will apply to the Radio Common Carrier's local exchange service used for administrative purposes. This shall also include those Radio Common Carriers providing maritime service under Part 81 of the FCC Rules and Regulations. (T)

A Radio Common Carrier is described as a common carrier engaged in the provision of Public Mobile Service, as defined in Part 22 of the FCC Rules and Regulations which is not also in the business of providing landline local exchange telephone service.

3.5 Rates and Charges

The rates and charges for End User Access are:

(A) Subscriber Line - Residential

	RATES PER MONTH	
Individual line or trunk, Each	Two Party, each party	Four Party, each party
--	--	--

3. END USER ACCESS SERVICE (Cont'd)

3.5 Rates and Charges (Cont'd)

The rates and charges for End User Access are: (Cont'd)

(B) Subscriber Line - Single Line Business

	RATES PER MONTH		
	Individual line or trunk, Each	Two Party, each party	Four Party, each party
	--	--	--

(C) Subscriber Line - Multiline Business

	RATES PER MONTH		
	Individual line or trunk, Each	Two Party, each party	Four Party, each party
	--	--	--

(D) Subscriber Line - Centrex CO

	RATES PER MONTH (per line)	
	Installed or ordered prior to July 27, 1983	Installed or ordered after July 27, 1983
	--	--

(D)

(D)

4. SWITCHED ACCESS SERVICE

4.1 General

Switched Access Service provides a two-point electrical communications path between the Customer's premises and Telephone Company exchange location. Switched Access Service provides for the use of common terminating, common switching and Switched Transport facilities, and common subscriber plant of the Telephone Company's public switched network. Switched Access Service provides for the ability to make and receive intrastate calls to and from Telephone Company exchange locations. It is typically used to originate and terminate MTS, WATS, and MTS/WATS-type services.

Switched Access Service is provided in four Feature Group arrangements. Each arrangement is differentiated by the type of connection (i.e., line side or trunk side) and the access calling pattern (e.g., 950-10XX). A detailed description of the services available with each Feature Group is set forth in Section 4.2. The physical characteristics and transmission performance capabilities for Switched Access Service are contained in Section 4.5.

Each Switched Access Service Feature Group arrangement has two rate elements: Local Transport and End Office. The services covered by the Local Transport and End Office rate elements are described in Sections 4.1.2(B) and (C), respectively. The charges for these rate elements are described in Section 4.7. The Local Transport rates include the charges for services referred to as Access Connections and described in Section 4.1.2(A). There is a minimum monthly charge for Switched Access Service and it is determined in accordance with Sections 4.6.3.

When a Customer changes from one type of Feature Group to another, charges as set forth in Section 4.6.5 shall apply. When a Customer moves to a new location, charges as set forth in Section 4.6.6 shall apply.

When Feature Group A Switched Access is provided the Customer's bill from the Telephone Company will include a credit for any local message unit charges as set forth in Section 4.6.10.

Service rearrangements are changes to existing services installed which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at the customer's premises or the customer's end user's premises. Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts. Changes in the physical location of the point of termination are treated as moves. (N)

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

Administrative changes will be made without charge to the customer. Such changes require the continued provision and billing of the Access Service to the same entity.

Rearrangements to convert FGD trunks from SS7 signaling to multifrequency address signaling will incur nonrecurring charges as specified in 4.7.3(B) following. (N)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.1 Feature Group Arrangements

There are four Feature Group arrangements through which Switched Access Service is provided. Following is a brief description of each. More detailed descriptions are set forth in Section 4.2.

(A) Feature Group A (FGA)

FGA Access 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.

(B) Feature Group B (FGB)

FGB Access provides trunk side access to Telephone Company end office switches with an associated uniform 950-10XX or 950-00XX CACs for the Customer's use in originating and terminating communications.

(C) Feature Group C (FGC)

FGC Access provides trunk side access to Telephone Company end office switches for AT&T's use in originating and terminating communications. WATS Access Lines, as described in Section 4.2.3 (A) (7), may be ordered separately by an entity other than the Customer that orders the FGC Switched Access Service. Existing FGC Access will be converted to Feature Group D when it becomes available in an end office.

(D) Feature Group D (FGD)

FGD Access provides trunk side access to Telephone Company end office switches with an associated uniform 101XXXX Carrier Access Code (CAC) for the Customer's use in originating and terminating communications. WATS Access Lines, as described in Section 4.2.4(A)(9), may be ordered separately by an entity other than the Customer that orders the FGD Switched Access Service. FGD is also available with End User presubscription, as set forth in Section 4.2.4(A)(6) and Section 8. Presubscribing End Users do not need to use the 101XXXX CAC to access the Customer. The provision of FGD Access is subject to local availability.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.1 Feature Group Arrangements (Cont'd)

(E) Toll Free Code (TFC) Data Base Query Service

(1) Description

TFC Data Base Query Service is an originating trunk side switched service that is available to the Customer via FGD Access tandem trunk groups. The service provides for the forwarding of end user dialed TFC calls to a Telephone Company Service Switching Point (SSP) which will initiate an TFC database query to an TFC database to perform the customer identification function. The call is forwarded to the appropriate Customer based on information contained in the Switching Control Point TFC Data Base.

No access code is required for TFC Data Base Query Service. When the TFC call is originated by an end user, the Telephone Company will perform the TFC data base query based on the dialed digits to determine the Customer location to which the call is to be routed. The TFC data base query will be performed from suitably equipped access tandems. Once Customer identification has been established, the call will be routed to the Customer. TFC calls may be routed to different Customers based on the local access transport area in which the call originates, however, calls originating from an end office switch not included in the Customer's area of service for TFC Data Base Query Service will not be completed.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.1 Feature Group Arrangements (Cont'd)

(F) TFC Data Base Optional Service Features

In addition to the 1+800-NXX-XXXX call routing described in (E) preceding, at the Customer's option, the Telephone Company will perform additional call routing service options as follows:

(1) Toll Free Code (TFC) to Local Exchange Number Translation

This option allows a TFC Access Service customer to specify standard local exchange telephone numbers for TFC call completion at the terminating end. When a TFC call is to be routed to a local exchange telephone number, the TFC Access Service customer must provide to its Responsible Organization or to the TFC SMS, the full ten digit local exchange number (NPA-NXX-XXXX) to be associated with the TFC number and indicates to which carrier the local exchange telephone number is to be delivered. If the TFC to Local Exchange Number Translation optional feature is used, the Customer will be unable to determine that such calls originated as 1+800-NXX-XXXX dialed calls unless the Customer also orders the non-chargeable Automatic Number Identification optional feature.

(2) Customer TFC Call Routing

This option allows for routing to multiple carriers, or variable terminating locations for TFC call completion based on the following criteria:

- Time of day
- Day of week
- Specific days of the year (e.g., December 25)
- Percentage of traffic (in one percent increments)
- Calling telephone number (unless technical limitations exist which do not provide for originating number identification)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.1 Feature Group Arrangements (Cont'd)

(F) TFC Data Base Optional Service Features (Cont'd)

(2) Customer TFC Call Routing (Cont'd)

With this option, TFC calls can be delivered to the carrier in either the direct dialed TFC number format or in the local exchange telephone number translated format. The Customer must enter the desired format and the necessary ten digit local exchange telephone number, if any, into the TFC SMS or provide such information to its Responsible Organization for handling.

The rates for the TFC Data Base Optional Service features described above are applied on a per query basis as set forth in Section 4.7.4 following. When a combination of one or more of the optional features is requested, only one such charge shall apply.

(G) Interim 500 Access Service

Interim 500 Access Service is an originating service that is provided via Interim 500 Access Service switched trunk groups, or may be provided in conjunction with FGC or FGD. The Service provides the Customer identification function (500 NXX screening) based on the first six digits of the dialed 500 number. When a 1+500+NXX+XXXX or 0+500+NXX+XXXX call is originated by an end user, a customer identification function determines the Customer to whom the call is to be routed based on the NXX dialed.

When a Customer requests that the Telephone Company open a 500 NXX access code for exchanges served by the Telephone Company within a specified state, LATA or service area subtending an access tandem, the order must include the provisioning of all Telephone Company offices within that state, LATA or all offices subtending the specified access tandem.

When Interim 500 Access Service traffic is combined in the same trunk group arrangement with other traffic, usage for the Interim 500 Access Service traffic will be aggregated with the other traffic for billing purposes. When separate trunk groups are provided for Interim 500 Access Service, usage will be provided separately. A more detailed description of Interim 500 Access Service is as set forth in 4.2.6.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories

There are three rate categories that apply to Switched Access Service.

- Switched Transport (described in 4.1.2(B) following)

- Local Switching (described in 4.1.2(C) following)

- Common Line (described in Sections 3 and 14)

In addition to these three rate categories, there are also charges that apply only to Interim 500 Access Service and Toll Free Code (TFC) Access Service. The description and application of Interim 500 Access Service charges are set forth in 4.1.2(E), 4.6.1(C)(2), 4.6.18 and 4.7.5. The description and application of TFC Access Service charges are set forth in 4.1.2(D), 4.6.1(C)(1), and 4.7.4.

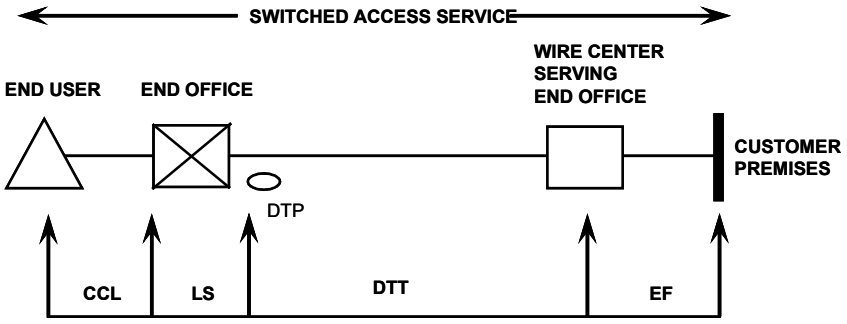
4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

The following diagrams depict generic views of the components of Switched Access Service and the manner in which the components are combined to provide a complete access service.

(A) DIRECT-TRUNKED TRUNK SIDE SERVICES AND ORIGINATING LINE SIDE SERVICES



CCL: CARRIER COMMON LINE
LS: LOCAL SWITCHING
DTT: DIRECT-TRUNKED TRANSPORT
EF: ENTRANCE FACILITY
DTP: DEDICATED TRUNK PORT

Note:
An exception to mileage measurement for originating line side Services is set forth in 4.6.14(C) following (Determining Switched Transport Mileage and Charges)

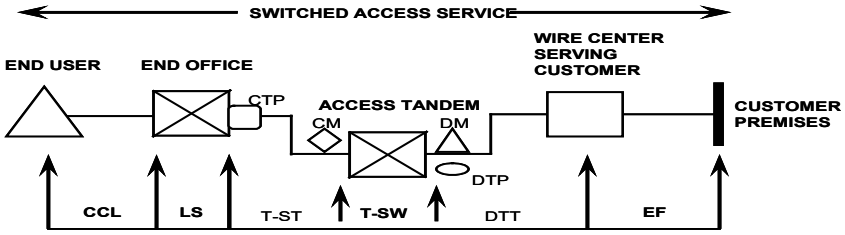
(T)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

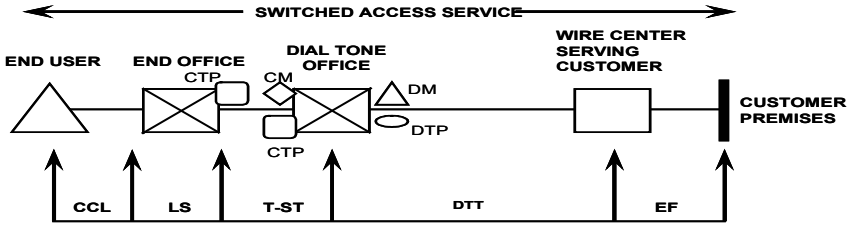
4.1.2 Rate Categories (Cont'd)

(B) TANDEM-SWITCHED TRUNK SIDE SERVICES



CCL: CARRIER COMMON LINE
LS: LOCAL SWITCHING
T-ST: TANDEM-SWITCHED TRANSMISSION (FIXED & PER MILE
T-SW: TANDEM SWITCHING
DTT: DIRECT-TRUNKED TRANSPORT
EF: ENTRANCE FACILITY
CTP: COMMON TRUNK PORT
CM; COMMON MULTIPLEXING
DTP: DEDICATED TRUNK PORT
DM: DEDICATED MULTIPLEXING

(C) TERMINATING LINE SIDE SERVICES



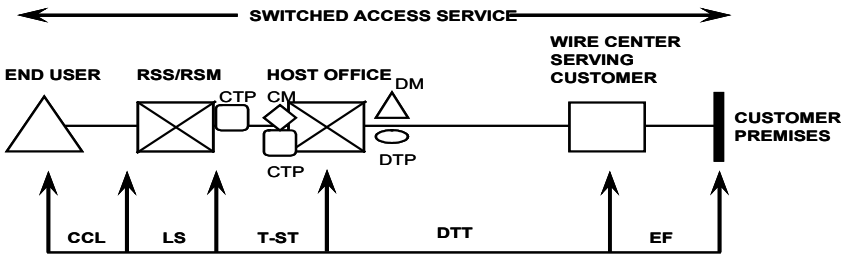
CCL: CARRIER COMMON LINE
LS: LOCAL SWITCHING
T-ST: TANDEM-SWITCHED TRANSMISSION (FIXED AND PER MILE)
DTT: DIRECT-TRUNKED TRANSPORT
EF: ENTRANCE FACILITY
CTP: COMMON TRUNK PORT
CM: COMMON TRANSPORT MULTIPLEXING
DTP: DEDICATED TRUNK PORT
DM: DEDICATED MULTIPLEXING

4 SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(D) DIRECT-TRUNKED HOST/REMOTE ARRANGEMENTS



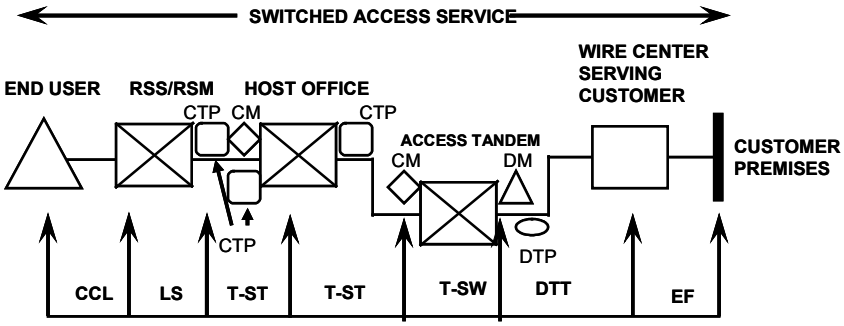
CCL: CARRIER COMMON LINE
LS: LOCAL SWITCHING
T-ST: TANDEM-SWITCHED TRANSMISSION (FIXED AND PER MILE)
DTT: DIRECT-TRUNKED TRANSPORT
EF: ENTRANCE FACILITY
CTP: COMMON TRUNK PORT
CM: COMMON MULTIPLEXING
DTP: DEDICATED TRUNK PORT
DM: DEDICATED MULTIPLEXING
RSS/RSM: REMOTE SWITCHING SYSTEM/REMOTE SWITCHING MODULE

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(E) TANDEM-SWITCHED HOST/REMOTE ARRANGEMENTS



CCL: CARRIER COMMON LINE
LS: LOCAL SWITCHING
T-ST: TANDEM-SWITCHED TRANSMISSION (FIXED AND PER MILE)
T-SW: TANDEM SWITCHING
DTT: DIRECT-TRUNKED TRANSPORT
EF: ENTRANCE FACILITY
CTP: COMMON TRUNK PORT
CM: COMMON MULTIPLEXING
DTP: DEDICATED TRUNK PORT
DM: DEDICATED MULTIPLEXING
RSS/RSM: REMOTE SWITCHING SYSTEM/REMOTE SWITCHING MODULE

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(A) Reserved For Future Use

(B) 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 or terminate the Customer's communications.

Switched Transport provides a one-way or two-way voice frequency transmission paths composed of facilities determined by the Telephone Company which permit the transport of calls in the originating direction and in the terminating direction, though not simultaneously. This voice frequency transmission path may be comprised of any form or configuration of plant capable of, and typically used in, the telecommunications industry for transmitting voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz. (T)

Switched Transport is comprised of an Entrance Facility, Direct-Trunked Transport, Tandem-Switched Transport, and various optional features and functions. Descriptions of the Switched Transport components are provided in (1) through (4) following.

Switched Transport is ordered under the Access Order provisions set forth in Section 9 following. Ordering provisions, as set forth in Section 2.4.8 preceding will apply when more than one Exchange Telephone Company is involved in the provision of a Switched Transport facility.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(1) Entrance Facility

An Entrance Facility provides the communication path between a Customer's premises and the Telephone Company's serving wire center for those premises. The Entrance Facility is dedicated to the use of single customer and is available for use with all line side and trunk side Switched Access Services. An Entrance Facility is provided even if the Customer's premises and the serving wire center are located in the same building.

The Entrance Facility rate element includes the transmission medium of the facility as well as certain circuit equipment that is used at the ends of the facility and employed to provision the channels on the transmission medium. The Entrance Facility rate element also includes an Interface Group as set forth in 4.5.3 following, which defines the technical characteristics and types of signaling capability associated with the connection (i.e., voice grade, DS1 or DS3, STS1 or OptiPoint) that comprises the Entrance Facility. The following types of Entrance Facilities are available: (C)

(a) Voice Grade Entrance Facility

Voice Grade Entrance Facility is provided in quantities of channels. Each Voice Grade channel provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 hertz (HZ) and may be terminated two-wire or four-wire. When a single Voice Grade channel is ordered to be terminated at a Customer's premises where the premises is all-digital and requires a minimum digital interface level of 1.544 Mbps, the Telephone Company will provide the required interface where facilities are available.

Technical Specifications for Voice Grade may be found in Technical Reference Publication TR-NWT-000335.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(1) Entrance Facility (Cont'd)

(b) DS1 Entrance Facility

DS1 Entrance Facility provides 24 channels for the transmission of nominal 56 Kbps or 1.544 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the Customer.

Technical specifications for DS1 may be found in Technical Reference Publication GR-342.

(c) DS3 Entrance Facility

DS3 Entrance Facility provides 28 DS1s or 672 channels and provides for transmission of nominal 44.736 Mbps isochronous serial data.

With DS3, an electrical interface will be installed at the Customer's premises, which provides an electrical signal with a transmission speed of 44.736 Mbps per channel.

DS3 Entrance Facility rates may vary based on distance, as set forth in 4.7.2(A) following.

Technical Specifications for DS3 may be found in Technical Reference Publication GR-342.

(d) STS1 Entrance Facility (N)

Synchronous Transport Signal Level 1 (STS1) channels provide for the SONET transmission of 51.84 Mbps of data. The signal consists of overhead and a Synchronous Payload Envelope (SPE). The overhead portion of the signal is used for controlling, framing and maintaining the signal. The SPE contains the customer information. (N)

(M)

(M)

(M) Material previously appearing on this page now appears on Page 13.2.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(1) Entrance Facility (Cont'd)

(d) STS1 Entrance Facility

STS1 is provisioned over the Telephone Company's SONET network and may be configured as a stand alone two-point service or connected to an OC level SONET service (e.g., switched OptiPoint Service) or hubbed to an STS1/DS1 Multiplexer.

Customers ordering STS1 service must specify the interface requested (i.e., STS1 interface or DS3 interface) and how the signal is to be formatted (i.e., STS1, STS1 with VT1.5 mapping, or STS1 with DS3 mapping). An STS1 with VT1.5 mapping can be multiplexed to 28 DS1s using the STS1/DS1 Multiplexing optional feature set forth in 4.1.2(B)(5)(e) following. Virtual Tributary (VT) mapping is a SONET structure designed for the transport of sub-STS1 payloads. A DS1 is mapped into the SONET format using a VT1.5 as a packaging mechanism that is internal to the SONET signal.

Current SONET standards do not provide for asynchronous DS3 to DS1 multiplexing. An STS1 may be mapped for either one DS3 or 28 DS1s. However, individual DS1s within a DS3 are not accessible within the SONET architecture, and their performance cannot be guaranteed for this reason. When the customer requests that an STS1 be mapped as a DS3 multiplexed to the DS1 level, a DS3 to DS1 multiplexing arrangement, as set forth in 4.1.2(B)(5)(e) following will be required.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(1) Entrance Facility (Cont'd)

(d) STS1 Entrance Facility (Cont'd)

STS1 Entrance Facility rates may vary based on distance. The mileage used to determine the monthly rate for entrance facilities located outside a Telephone Company Central Office is the airline distance between the customer's designated premises and the Telephone Company serving wire center. The mileage measurement is determined by utilizing exchange maps and mileage tables located in designated Telephone Company offices for such purposes.

STS1 service is provided where SONET facilities are available with sufficient bandwidth capacity to meet the customer's request.

(e) OptiPoint Entrance Facilities (T) (M)

OptiPoint entrance facilities provide point-to-point high-speed synchronous optical fiber based full duplex data transmission capabilities. A detailed service description for OptiPoint Services is set forth in 4.2.7 following. (M)

(M) Material now appearing on this page previously appeared on Second Revised Page 13.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(2) Direct-Trunked Transport

Direct-Trunked Transport provides the communication path between the serving wire center of a Customer's premises and an end office. Direct-Trunked Transport is dedicated to the use of a single customer and does not require switching at an access tandem. Direct-Trunked Transport is available for use with all line side and trunk side Switched Access Services.

Direct-Trunked Transport is not available to end offices that lack recording and measuring capabilities needed to provide Direct-Trunked Transport. Direct-Trunked Transport is also not available for TFC Access Service when the required SSP function is located at the access tandem.

Direct-Trunked Transport provides for the transmission facilities between the Telephone Company's serving wire center and an end office when such facilities are not switched through an access tandem. This includes the transmission medium itself as well as certain circuit equipment that is used at the ends of the interoffice links and employed to provision the channels on the transmission medium and circuit equipment used within the network to manage the circuits at intermediate locations.

The Telephone Company applies a 50% billing percentage to the Direct-Trunked Transport termination (fixed) rate on jointly owned circuits, and applies 100% on wholly-owned circuits. When the Direct-Trunked Transport facility is zero (i.e., collocated serving wire centers), neither the Direct-Trunked Transport facility (per mile) rate or the Direct-Trunked Transport termination (fixed) rate will apply. (N)

Direct-Trunked Transport also provides for the transmission facilities between the Telephone Company's serving wire center and a hub that interconnects facilities for both Tandem-Switched Transmission and Direct-Trunked Transport

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(3) Tandem-Switched Transport

Tandem-Switched Transport provides the communication path between the serving wire center of a Customer's premises and an end office, and includes tandem switching functions. Tandem-Switched Transport also includes circuits dedicated to the use of single customer (from the serving wire center to the access tandem) and circuits provided for the common use of all Customers who have requested tandem switching (from the access tandem to the end office). Tandem-Switched Transport is available for use with all trunk side Switched Access Services. Tandem-Switched Transport is not available for use with line side Switched Access Services. For examples of Tandem Switched Transport see Section 2.4.4 preceding.

Effective July 1, 2021, as established in the 8YY Access Charge Reform (FCC 20-143), existing tandem switching charges and transport charges for originating 8YY traffic are eliminated and a single joint tandem switched access service rate element for 8YY originating access service is established. The 8YY originating Joint Tandem Switched Transport rate is provided at the rates set forth in 4.7.2(C)(4). (N) (N)

Tandem-Switched Transport provides for the transmission facilities between the Telephone Company's serving wire center and an end office that is switched through a tandem. Tandem-Switched Transport is composed of four sub-elements:

(M) (M)

(M) Material moved to Page 15.1

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(3) Tandem-Switched Transport (M)

(a) Tandem-Switched Transmission, which provides for the transmission facilities from the Telephone Company's serving wire center to an access tandem switch and from the Telephone Company's access tandem switch to an end office. This includes the transmission medium itself as well as certain circuit equipment that is used at the ends of the interoffice links and employed to derive the channels on the transmission medium, and circuit equipment used within the network to manage the circuits at intermediate locations.

The Telephone Company applies a 50% billing percentage to the Tandem-Switched Transport termination (fixed) rate on jointly owned circuits, and applies 100% on wholly-owned circuits. When the Tandem-Switched Transport Facility is zero (i.e., collocated serving wire centers), neither the Tandem-Switched Transport Facility (per mile) rate or the Tandem-Switched Transport Termination (fixed) rate will apply.

(b) Tandem Switching, which provides for use of the Telephone Company's access tandem. (M)

(M) Material moved from Page 15.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(3) Tandem-Switched Transport (Cont'd)

(c) Common Transport Multiplexing provides for the use of the multiplexing equipment at the remote, the end office, and at the access tandem. The common transport multiplexing rate element is assessed on a per minute of use basis at both the end office and tandem.

(d) Dedicated Transport Multiplexing provides for the use of multiplexing equipment at the end office and access tandem. The dedicated transport multiplexing rate element is a flat rated charge and is assessed at both the end office and tandem. Dedicated transport multiplexing is provided at the rates set forth in 4.7.2(D)(4)b following for DS3 to DS1 multiplexing. (T)

(e) Tandem Trunk Port

The trunk port rate elements are defined as follows:

- Common Trunk Port

  The Common Trunk Port provides for the use of shared end office trunk ports for the termination of common transport trunks for tandem or end office routed traffic.

- Dedicated Trunk Port

  The Dedicated Trunk Port provides for termination of a dedicated trunk as a trunk side arrangement to an end office or provides access into the access tandem at the serving wire center side of the switch.

Switched Transport is provided at the rates and charges as set forth in 4.7.2 following.

The number of Switched Transport transmission paths provided is based on the Customer's order and is determined by the Telephone Company as set forth in 4.3.5 following.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(4) Nonchargeable Optional Features

Where transmission facilities permit, the Telephone Company will, at the option of the Customer, provide the following optional features in association with the Interface Groups listed in 4.5.4(A) through (I) following. Only those Interface Groups referenced with each optional feature will be provided with that feature.

(a) Supervisory Signaling

Where 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 and 9

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., non digital, interface to the transport termination and a portion of the facility between the analog entry switch and the Customer's premises is analog. These Supervisory Signaling arrangements are not available in combination with the SS7 signaling feature.

4. SWITCHED ACCESS SERVICE

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(4) Nonchargeable Optional Features (Cont'd)

(b) Data Transmission Parameters

Where transmission facilities permit, the Customer may order Data Transmission Parameters for each transmission path in association with Interface Groups 1, 2, 6 and 9.

This feature includes the provision of trouble testing by the Telephone Company, either independently or cooperatively with the Customer, of parameters normally associated with data transmission. The Telephone Company will, upon receipt of a trouble report from the Customer, conduct tests either independently or cooperatively with the Customer as appropriate, and take any necessary action to insure that the parameters set forth in 4.5.2(A) or 4.5.2(B) are met. In those cases where the Customer specifically requests that Telephone Company personnel conduct tests, Maintenance of Service charges will be imposed where applicable in accordance with Section 8.3.1.

(c) Improved Return Loss

This feature provides Improved Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of termination. The specific parameters guaranteed are set forth in 4.5.1 following. This feature is available with all Feature Groups.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(5) Chargeable Optional Features

(a) Provision of Other Than Telephone Company Selected Traffic Routing

This option allows the Customer to specify a particular traffic routing for trunk groups in lieu of Telephone Company selected routing, i.e., the Customer may specify that the routing be on a direct trunk basis or via an access tandem. It is available with Feature Groups B, C, D and Interim 500, TFC and 900 Access Service.

(b) Reserved For Future Use

(c) Customer Specification of Feature Group Directionality

This option allows the Customer to specify that the operation of a trunk group will be one-way originating or terminating calling in lieu of Telephone Company selected two-way calling or, alternatively, that operation will be two-way calling in lieu of Telephone Company selected one-way calling. It is available with Feature Groups B, C, D and TFC Access Service.

(d) 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.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(5) Chargeable Optional Features (Cont'd)

(e) Multiplexing

Multiplexing provides for arrangements to convert a single higher capacity or bandwidth circuit for bulk transport to several lower capacity or bandwidth circuits. Multiplexing is only available at Telephone Company designated Hubs (end offices) arranged for multiplexing or at the access tandem trunk on the serving wire center side of the access tandem. All types of multiplexing may not be available at each Hub location.

Listed below are the multiplexing arrangements offered with switched access.

- DS1 to Voice

  An arrangement that multiplexes twenty-four voice grade circuits to a single DS1 digital circuit at a rate of 1.544 Mbps, or multiplexes a single DS1 digital circuit at a rate of 1.544 Mbps to twenty-four voice grade circuits.

- DS3 to DS1

  An arrangement that multiplexes twenty-eight DS1 digital circuits to a single DS3 digital circuit at a rate of 44.736 Mbps, or multiplexes a single DS3 digital circuit at a rate of 44.736 Mbps to twenty-eight DS1 digital circuits.

(M)

(M)

(M) Material previously appearing on this page now appears on Page 20.1.

ISSUED: October 16, 2002

EFFECTIVE: November 15, 2002

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(B) Switched Transport (Cont'd)

(5) Chargeable Optional Features (Cont'd)

(e) Multiplexing (Cont'd)

- STS1/DS1 Multiplexing

An arrangement that provides transport of sub-STS1 payloads by converting an STS1 with VT1.5 mapping to 28 DS1s. The STS1/DS1 Multiplexing feature is available at Telephone Company provided fiber optic terminals equipped with VT1.5 configuration cards.

The options described in (a), (b), (c), (d) and (e) preceding are rated on an individual case basis with both nonrecurring charges and monthly recurring rates applying. The rates and charges applicable for the multiplexing options described in (e) preceding are set forth in 4.7.2(D) following. (M)

(M) Material now appearing on this page previously appeared on Original Page 20.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(C) Local Switching

The Local Switching rate element provides for the use of end office switching equipment for the termination of the End User lines in the local end office, and for the termination of a call at a Telephone Company operator or recording. End user lines may be provided as either Common Lines or WATS Access Line Terminations. Common Lines are discussed in Sections 3 and 14 while WATS Access Lines are discussed in 4.2.3(7). There are various types of originating and terminating line side terminations depending on the type of signaling used (i.e., loop start or ground start). Line side terminations are available with either dial pulse or dual tone multifrequency address signaling.

The intercept service included in this rate element causes a call to an improper number to be redirected to an operator or a recorded message explaining why the call as dialed was not completed and if possible provides the correct number.

Where end offices are appropriately equipped, International dialing may be provided as a capability associated with LS2. 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 FGC or FGD equipped end office.

Rates for LS1 and LS2 are set forth in 4.7.3. The application of this rate with respect to Individual Feature Groups is as set forth in Section 4.6.13. The number of transport terminations provided will be determined in accordance with Sections 4.3.5 and 4.3.6.

Included as part of the Local Switching rate element are various optional features, which the Customer can order to meet its specific communications requirements. These optional features are described in 4.2.5 following.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.2 Rate Categories (Cont'd)

(D) Toll Free Code (TFC) Data Base Query Service

TFC Data Base Query Service determines the Customer to whom TFC calls will be routed. For all 1+8XX-NXX-XXXX calls, originated by an end user, the Telephone Company will route to an access tandem switch equipped to provide the customer identification function. Once customer identification has been established through TFC Data Base Query Service, the TFC call will be routed to the selected Customer for completion.

Rates applicable to TFC Data Base Query Service appear in 4.7.4.

(E) Interim 500 Access Service Nonrecurring Charges

The Interim 500 Access Service nonrecurring charge is assessed depending upon how the service is ordered:

(1) If the service is ordered for the state or LATA, the customer charge for the assembly of route tables is assessed for each end office/tandem the Telephone Company serves in the state or LATA. A second nonrecurring charge element applies per NXX activated or deactivated, times the number of Telephone Company access tandems or end offices modified to perform six digit screening for Interim 500 Access Service.

(2) The second alternative allows for the service to be ordered to only one access tandem or end office performing six-digit screening. The customer charge for the assembly of route tables is assessed for each end office subtending the access tandem (including a collocated end office, if applicable). A second nonrecurring charge element applies per NXX activated or deactivated, times the designated Telephone Company access tandem(s) or end office(s) modified to perform six digit screening for Interim 500 Access Service. This option can be applied repetitively to different tandems to customize the intended offering area.

The route pattern nonrecurring charge applies only one, on the Customer's initial request to the Telephone Company for Interim 500 Access Service in each LATA or state. If the Customer places an order using option (2) above, the route pattern nonrecurring charge applies to each end office specified in the order received.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.1 General (Cont'd)

4.1.3 Circuit Design Layout

The Telephone Company will provide the Customer at its request a Design Layout Report (DLR) setting forth the makeup of the facilities and services provided to the first point of switching. The DLR will be provided to the Customer at no additional charge. The information in the DLR will be updated whenever facilities provided to the Customer are materially changed.

4.1.4 Acceptance Testing

The Telephone Company will, at the Customer's request and at no additional charge, cooperatively test, at the time of installation, the following parameters: loss, 3-tone slope, DC continuity, c-notched noise, and operational signaling. When the Access Connection is provided with Interface Groups 2 through 9 and the transport termination is two-wire (i.e., there is a four-wire to two-wire conversion in Switched Transport), balance parameters (equal level echo path loss) will also be tested, if requested by the Customer.

When 500, TFC, or 900 NXXs are opened (new translations installed) by the Telephone Company, the testing will be performed by the Telephone Company. For each new NXX installed from an equal access end office, the Telephone Company shall place one test call to the new IC 500, TFC, or 900-NXX-XXXX test number. This number provides an announcement identifying the IC, thereby verifying Telephone Company routing. From a Non-Conforming End Office for offices subtending an Access Tandem that performs 500, TFC or 900 NXX six digit translations, one Non-Conforming End Office will have a call through test to the new IC 500, TFC or 900-NXX-XXXX test number by the Telephone Company.

4.1.5 Special Facilities Routing

A 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 as set forth in Section 11.

4.1.6 Ordering Options and Conditions

A Facilities Access Order is the vehicle by which the Customer orders, changes and discontinues Switched Access Service. The conditions under which the Facilities Access Order can be utilized are set forth in Section 9.

4.1.7 CCS7 Testing Requirements

When Feature Group D with the CCS7 option is ordered, network compatibility and other operational tests will be performed cooperatively by the Telephone Company and the Customer. These tests are as specified in the industry Network Operations Forum (NOF) as well as those specified in Technical Publication TR-TSV-000905 and related documentation.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups

Switched Access Service is provided in four different Feature Group arrangements. The provision of each Feature Group requires Switched Transport facilities and the appropriate End Office functions. In addition, WATS Access Lines may, at the option of the Customer, be provided for use with Feature Groups C or D.

Three specific standard transmission performances are provided for the Feature Groups (Types A, B and C). The specific performance required is 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 performances are set forth in 4.5.1.

In addition, Data Transmission Parameters are available on an optional basis, with the four Interface Groups. The Data Transmission Parameters are set forth in 4.5.2.

Feature Groups are arranged for originating, terminating or two-way calling. The Telephone Company will determine the directionality of calling provided, unless the Customer specifies in its order the type of directionality to be provided. Originating calling permits the delivery of calls from Telephone exchange locations to the Customer designated premises. Terminating calling permits the delivery of calls from the Customer designated premises to Telephone exchange locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. Design, selection of facilities and traffic routing are governed by Section 4.3.2.

In addition to Customer specification of Feature Group directionality, there are various optional features available with the Feature Groups.

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

The optional features are offered at Telephone Company end office switches where facilities are available.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.1 Feature Group A (FGA)

(A) Description

(1) FGA is provided in connection with all Telephone Company end offices. It is provided on a single or multiple line group basis. FGA is arranged for the Customer's use in originating and terminating communications to an Interexchange Carrier's intrastate service or a customer provided intrastate communications capability, or for connection to an interexchange carrier's intrastate service.

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

(3) The Telephone Company shall select the first point of switching 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 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.

(5) FGA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling and dial pulse address signaling. When used in the terminating direction FGA switching may, at the option of the Customer, be arranged for 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 must be arranged for the same type of address signaling.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

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

(A) Description (Cont'd)

(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 inband tone signaling techniques. Such inband 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 switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, local operator service, Information (411 and 555-1212), emergency reporting service exchange telephone repair, time or weather announcement services of the Telephone Company, community information services of the Telephone Company, community information services of an information service provider, and other Customers' services (by dialing the appropriate digits). The Customer will be billed for (a) an operator surcharge for local operator assistance calls; (b) charges for calls to certain community information services, e.g., DIAL-IT Network Services; and (c) Customer call charges in accordance with the rates in force when the Telephone Company performs the billing for such Customer calls.

(8) When a FGA switching arrangement for an individual Customer (a single line or entire hunt group) is discontinued at an end office, a regular number 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.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

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

(B) Optional Features - (Subject to Local Availability)

(1) Local Switching Optional Features

(a) Hunt Group Arrangement
(b) Nonhunting Number for Use with Hunt Group Arrangement
(c) Call Restriction
(d) Service Code Denial
(e) Uniform Call Distribution Arrangement
(f) Nonhunting Number for Use with Uniform Call Distribution Arrangement
(g) Call Denial
(h) Dual Tone Multifrequency Address Signaling
(i) Hunt Group Arrangement for Use with WATS Access Line
(j) Uniform Call Distribution Arrangement for Use with WATS Access Lines
(k) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Lines
(l) Two-way Operation with Dial Pulse Address Signaling and Loop Start Supervisory Signaling
(m) Two-way Operation with Dial Pulse Address Signaling and Ground Start Supervisory Signaling
(n) Two-way Operation with Dual Tone Multifrequency Address Signaling and Loop Start Supervisory Signaling
(o) Two-way Operation with Dual Tone Multifrequency Address Signaling and Ground Start Supervisory Signaling
(p) Terminating Operation with Dial Pulse Address Signaling and Loop Start Supervisory Signaling
(q) Terminating Operation with Dial Pulse Address Signaling and Ground Start Supervisory Signaling
(r) Terminating Operation with Dual Tone Multifrequency Address Signaling and Loop Start Supervisory Signaling
(s) Terminating Operation with Dual Tone Multifrequency Address Signaling and Ground Start Supervisory Signaling
(t) Originating Operation with Loop Start Supervisory Signaling
(u) Originating Operation with Ground Start Supervisory Signaling

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

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

(B) Optional Features - (Subject to Local Availability) (Cont'd)

(2) Switched Transport Optional Features

(a) Supervisory Signaling
(b) Improved Return Loss
(c) Data Transmission Parameters

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

(a) Custom Calling Features
(b) Bill Number Screening
(c) IntraLATA Extensions

(C) Transmission Performance

FGA is provided with either Type B or Type C Transmission Performance. The parameters associated with these performance criteria are guaranteed to the first point of switching. Type C Transmission Performance is provided with Interface Group 1 and Type B is provided with interface Group 2, 6 and 9. In addition, Data Transmission Parameters may, at the option of the Customer, be provided with FGA to the first point of switching. Type DB Data Transmission Parameters are provided with FGA. Standard transmission Performance is described in Section 4.5.1.

(D) Testing Capabilities

FGA is provided, in the terminating direction, with access to balance (100 type) test line and milliwatt (102 type) test line. Additional testing available as set forth in Section 8.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.2 Feature Group B (FGB)

(A) Description

(1) FGB is provided at appropriately equipped Telephone Company switches as trunk side switching through the use of end office or access tandem switch trunk equipment. The switched trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling. The provision of FGB Access is subject to local availability.

(2) 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 Section 4.2.5, any other address signaling in the originating direction, if required by the Customer, must be provided by the End User using inband tone signaling techniques. Such inband 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.

(3) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-10XX for Customers. These uniform access codes will be the assigned access numbers of all FGB Switched Access Service provided to the Customer by the Telephone Company.

(4) 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 provided 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 be billed charges for calls to certain community information services e.g., DIAL-IT Network Service. Calls in the terminating direction will not be provided to 950-10XX or 950-00XX access codes, local operator assistance, information (411 or 555-1212 or service codes (611 or 911) where available. Calls will be completed to information (NPA-555-1212 or 555-1212) when FGB switching is combined with information service.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.2 Feature Group B (FGB) (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 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 at the option of the Telephone Company.

(6) When all FGB switching arrangements are discontinued at an end office, a regular number 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 - (Subject to Local Availability)

(1) Local Switching Optional Features

(a) Automatic Number Identification (ANI)
(b) Rotary Dial Station Signaling Trunk
(c) Up to Seven Digit Outpulsing of Access Digits to Customer
(d) Alternate Traffic Routing
(e) Hunt Group Arrangement for use with WATS Access Lines
(f) Uniform Call Distribution Arrangement for use with WATS Access Lines
(g) Nonhunting Number for use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for use with WATS Access Lines.
(h) Multifrequency Address Signaling

(2) Switched Transport Optional Features

(a) Provision of Other Than Telephone Company Selected Traffic Routing
(b) Customer Specification of Feature Group Directionality
(c) Customer Specification of Switched Transport Termination
(d) Improved Return Loss
(e) Supervisory Signaling
(f) Data Transmission Parameters

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

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

(B) Optional Features – (Subject to Local Availability) (Cont'd)

(3) Another feature, Bill Number Screening, which may be available in connection with FGB, is provided under the Telephone Company's general exchange service tariffs.

(C) Transmission Performance

FGB is provided with Type A, Type B or Type C Transmission Performance 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, 6 and 9.

Type DA Data Transmission Parameters are provided for the transmission path between the Customer's premises and the access tandem end 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.

Transmission specifications for CCS7 signaling connections are set forth In Technical Publication TR-TSV-000905 and other related documentation.

(D) Testing Capabilities

Where equipment is available, FGB is provided in the terminating direction with access to balance (100 type) test line, transmission measuring and noise checking (104 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, loop around test line, short circuit test line, and open circuit test line. Additional testing available as specified in Section 8.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.3 Feature Group C (FGC)

(A) Description

(1) FGC is provided at all Telephone Company end office switches on a direct trunk basis or via Telephone Company designated access tandem switches. FGC switching is provided to AT&T at an end office switch.

(2) FGC is provided as trunk side switching through the use of end office or access tandem-switched trunk equipment. The switched trunk equipment is provided with answer and disconnect supervisory signaling. Wink start start-pulsing signals are provided in all offices where available. In those offices where wink start start-pulsing signals are not available, delay dial start-pulsing signals will be provided.

(3) FGC is provided with multifrequency address signaling. Up to 12 digits of the called party number dialed by the End User using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the Customer designated premises where the Switched Access Service terminates. Called party number signals will be subject to the ordinary transmission capabilities of the Access Connections and Switched Transport provided.

(4) The telephone number dialed by the End User may be a seven-digit or ten-digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven-digit to twelve-digit number may be dialed. The form of the numbers dialed may be 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.

(5) FGC 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 provider, and other Customers' services (by dialing the appropriate codes) when the 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 offices subtending the access tandem may be accessed. The Customer will be billed charges for calls to certain community information services, e.g., DIAL-IT Network Services. Calls in

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.3 Feature Group C (FGC) (Cont'd)

(A) Description (Cont'd)

(5) FGC switching, when used… (Cont'd)

the terminating direction will not be provided to 950-10XX, 950-00XX, 101XXXX Carrier Access Codes (CACs), local operator assistance, Information (411 or 555-1212) or service codes (611 or 911) where available. Calls will be completed to Information (NPA-555-1212 or 555-1212) when FGC switching is combined with Information service.

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

(7) A WATS Access Line may, at the option of the Customer, be provided for use with FGC Switched Access Service. A WATS Access Line provides a connection between a Customer's End Users premises and a Telephone Company end office switch capable of performing the necessary screening functions for TFC Service, WATS or similar services and is provided only for use at the closed end of such services. A list of end offices capable of performing the necessary screening functions will be provided to the Customer upon request.

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 Sections 4.5.1(C) and 4.5.2 (C). At the option of the Customer, the WATS Access Line may be ordered with the Improved Two-Wire Voice Transmission Specifications (guaranteed specifications are set forth in Section 4.5.3).

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.3 Feature Group C (FGC) (Cont'd)

(B) Optional Features - (Subject to Local Availability)

(1) Local Switching Optional Features

(a) Automatic Number Identification (ANI)
(b) Service Class Routing
(c) Dial Pulse Address Signaling
(d) Revertive Pulse Address Signaling
(e) Panel Call Indicator Address Signaling
(f) Alternate Traffic Routing
(g) Trunk Access Limitation
(h) Operator Trunks - i.e., pay telephone (pay trunks are provided only at Telephone Company electronic end offices and other Telephone Company end offices where equipment is available)
(i) End Office End User Line Service Screening for use with WATS Access Lines
(j) Hunt Group Arrangement for use with WATS Access Lines
(k) Uniform Call Distribution Arrangement for use with WATS Access Lines
(l) Nonhunting Number for use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for use with WATS Access Lines
(m) Band Advance Arrangement for use with WATS Access Lines
(n) Multifrequency Address Signaling

(2) Switched Transport Optional Features

(a) Supervisory Signaling
(b) Customer Specification of Feature Group Directionality
(c) Provision of other Than Telephone Company Selected Traffic Routing
(d) Improved Return Loss
(e) Data Transmission Parameters

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.3 Feature Group C (FGC) (Cont'd)

(C) Transmission Performance

FGC is provided with either Type B or Type C Transmission Performance as follows:

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

- When routed to an access tandem only Type B is provided.

- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C Transmission Performance is provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2, 6 and 9, whether routed directly to an end office or to an access tandem.

In addition, Data Transmission Parameters may, at the option of the Customer, be provided with FGC as follows:

- Type B Data Transmission Parameters are provided for the transmission path when directly routed to the end office and between the Customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

(D) Testing Capabilities

Where equipment is available, FGC is provided in the terminating direction with access to balance (100 type) test line, transmission measuring and noise checking (104 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, loop around test line, short circuit test line and open circuit test line. Additional testing available as set forth in Section 8.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

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

(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. The provision of FGD access is subject to local availability. Originating FGD access is available to all Customers when used to provide the 900 access service optional feature.

For FGD with CCS7, the CCS with SS7 protocol is provided through a local exchange carrier (LEC) designated STPs.

Calls to a 900 number dialed via 1+ from coin telephones, 101XXXX, Inmate Service, and Hotel/Motel Service will be routed to an appropriate announcement (i.e., blocked), where the capability exists. Calls to a 900 number via 0+ will be routed to an appropriate announcement (i.e., blocked) unless a facilities access order requesting call completion is submitted to the Telephone company by the Customer, in which case, 0+900 calls will be completed.

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

(3) FGD is provided with multifrequency address signaling. Up to twelve 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 where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Access Connections and Switched Transport provided.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.4 Feature Group D (FGD)

(A) Description (Cont'd)

(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, and other Customers' services (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 serviced by the 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 Non-Access charges for calls to certain community information services, for which rates are applicable under Telephone Company Exchange service tariff, e.g., DIAL-IT Network Service. Additionally, non-access 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 billing for that Customer. Calls in the terminating direction will not be provided to 950-10XX, 950-00XX, 101XXXX Carrier Access Codes (CACs), local operator assistance (0- and 0+), Information (411 or 555-1212) or other service codes (611 and 911 where available). Calls will be completed to Information service (NPA-555-1212 or 555-1212) when FGD switching is combined with Information service. FGD may not be switched in the terminating direction to Switched Access Service Feature Groups B, C, or 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, 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 of 101XXXX. No 950-10XX, 950-00XX, or 101XXXX Carrier Access Code (CAC) is required for calls to a Customer over FGD Switched Access Service if the End User's telephone exchange service is arranged for presubscription to that Customer, as set forth in Section 8. The telephone number dialed by the End User shall be a seven-digit or ten-digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven-digit to twelve-digit number may be dialed. Where no 950-10XX or

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

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

(A) Description (Cont'd)

(6) The access code for FGD… (Cont'd)

950-00XX CAC is required, the form of the called party numbers dialed by the End User is 0 or 1 + 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 CAC is used, FGD switching also provides for dialing the digit 0 for access to the Customer's operator. A single 101XXXX CAC will be the assigned number of all FGD Access provided to the Customer by the Telephone Company.

(7) FGD also may be used to recognize originating calls where the Customer permits its End Users to use a personal identification number (PIN) when dialing 101XXXX to access the Customer's terminal. Upon receipt of a tone the End User will input his PIN and the called party number. Depending on the Customer's capability, he may or may not receive an acknowledgement tone after dialing the PIN. This dialing method is available only to End Users with DTMF address signaling. There is no additional charge for this dialing capability.

(8) Reserved For Future Use

(9) 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 800 Service, WATS or similar services and is provided only for use at the closed end of such services. A list of end offices capable of performing the necessary screening functions will be provided to the Customer upon request

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 Sections 4.5.1(C) and 4.5.2(C). At the option of the Customer, the WATS Access Line may be ordered with the Improved Two-Wire Voice Transmission Specifications (guaranteed specifications are set forth in Section 4.5.3).

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

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

(B) Optional Features (Subject to Local Availability)

(1) Local Switching Optional Features

(a) Automatic Number Identification (ANI) to Customer Switching for recording when the Customer performs the billing
(b) Automatic Number Identification (ANI) to the Telephone Company for recording when the Telephone Company performs the billing
(c) Service Class Routing
(d) Alternate Traffic Routing
(e) Trunk Access Limitation
(f) International Carrier Option (available only at Telephone end office or access tandem switches equipped for International Direct Distance Dialing)
(g) End Office Customer Line Service Screening (available only at electronic end offices and other Telephone Company end offices where equipment is available)
(h) Hunt Group Arrangement for access lines used in conjunction with WATS or WATS-type service
(i) Uniform Call Distribution Arrangement for access lines used in conjunction WATS or WATS-type service
(j) Nonhunting Number for use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for use with WATS Access Lines
(k) Band Advance Arrangement for use with WATS Access Lines
(l) Common Channel Signaling/Signaling System 7 (CCS/SS7) with optional features as follows:
    (1) Calling Party Number (CPN)
    (2) Charge Number (CN)
    (3) Carrier Selection Parameter (CSP)
(m) Reserved for Future Use (D)
(n) Multifrequency Address Signaling
(o) Intrastate Carrier Option
(p) Call Gapping
(q) Switched 64 Clear Channel Capability

(2) Switched Transport Optional Features

(a) Supervisory Signaling
(b) Improved Return Loss
(c) Provision of Other than Telephone Company Selected Traffic Routing
(d) Customer Specification of Feature Group Directionality
(e) Data Transmission Parameters.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

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

(C) Transmission Performance

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

- When routed directly to the end office either Type B or Type 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 Performance is provided with Interface Group 1

- Type A and Type B Transmission Performance is provided with Interface Groups 2, 6 and 9

In addition, Data Transmission Parameters may, at the option of the Customer, be provided with FGD as follows:

- 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 when routed via an access tandem.

- Type DB Data Transmission Parameters are provided for the transmission path when directly routed to the end office.

Transmission specifications for CCS7 signaling connections are set forth in Technical Publication TR-TSV-000905 and other related documentation.

(D) Testing Capabilities

Where equipment is available, FGD is provided in the terminating direction with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, loop around test line, short circuit test line and open circuit test line. Additional testing available as set forth in Section 8.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.5 Optional Features

The various optional features that are available with the Feature Groups and the Feature Groups with which they are available are as follows:

(A) Call Denial on Line or Hunt Group Outside the Access Area

This option allows for the screening of terminating calls and for completion only of calls within the Access Area. All other calls are routed to an appropriate access announcement. Specifically, this option would block terminating calls to the following:

* Outside the Access Area, dialed as either 7D, l0D, 1+7D, 1+10D, 950-XXXX, 101XXXX+7D, or 101XXXX+10D.
* Service Access Codes (700, 800 and 900).
* International, dialed as either 011 or 01.
* Operator, dialed as 0+, 0-, or 00.

This arrangement is available with FGA in those offices where such capabilities exist. Blocking of the 800 Service Access Code may not be available in all end offices where this arrangement is otherwise available.

(B) Call Restriction

This option allows for the screening of terminating calls and for the completion only of calls to a Telephone Company specified set of service codes and NXXs within the Telephone Company local exchange calling area of the dial tone office in which the arrangement is provided. All other "toll" calls are routed to a reorder tone or recorded announcement. It is available with Feature Group A only in those offices where such capabilities exist.

(C) Service Code Denial on Line or Hunt Group

This option allows for the screening of terminating calls and for disallowing completion of calls to 0- and N11. It is available with Feature Group A only in those offices where such capabilities exist.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.5 Optional Features (Cont'd)

(D) 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.

(E) Nonhunting Number for Use with Hunt Group Arrangement

This option provides an arrangement for an individual line within a multiline hunt group that provides access to that line within the hunt group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. It is available with Feature Group A only in those offices where such capabilities exist.

(F) 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. It is available with Feature Group A only in those offices where such capabilities exist.

(G) Nonhunting Number for Use with Uniform Call Distribution Arrangement

This option provides an arrangement for a uniform call distribution multiline hunt group that provides access to an individual line within the hunt group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. It is available with Feature Group A only in those offices where such capabilities exist.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.5 Optional Features (Cont'd)

(H) Automatic Number Identification (ANI)

This option provides the automatic transmission of a seven or ten-digit number and information digits to the Customer designated premises for calls to identify the calling station. The ANI feature, which is a software function, will be associated with all individual transmission paths in a trunk group when this feature is provided.

The seven-digit ANI telephone number is available with Feature Groups B and C. It will be transmitted on all calls except those identified as multi-party line or ANI failure.

The ten-digit ANI telephone number is available only with FGD. When the CCS7 protocol optional feature is specified, the Customer may obtain an ANI equivalent by ordering the Charge Number optional feature as specified in 4.2.5(DD) following. 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 multi-party line or ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described below).

With Feature C, ANI is provided from end offices at which Telephone Company recording for end user billing is not provided, or where it is not required, as with 800 Service. It is not provided from end offices for which the Telephone Company needs to forward ANI to its recording equipment.

Where ANI cannot be provided, e.g., on calls from 4 and 8 party services, information digits will be provided to the Customer.

(I) 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 (950-10XX or 950-10XX) to the Customer designated 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 designated premises using multi-frequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. It is available with Feature Group B.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.5 Optional Features (Cont'd)

(J) Revertive Pulse Address Signaling

This option provides for a DC pulsing arrangement that transmits intelligence in the following manner:

(1) The equipment at the originating location presets itself to represent the number of pulses required and to count the pulses received from the terminating location.

(2) The equipment at the terminating location transmits a series of pulses by the momentary grounding of its battery supply until the originating location breaks the DC path to indicate that the required number of pulses has been counted.

This option is available only with Feature Group C.

(K) Dial Pulse Address Signaling

This option provides for the transmission of number information, e.g., called number, between the end office switching system and the Customer's designated premises (in either direction) by means of direct current pulses. It is available with Feature Groups C and D.

(L) Panel Call Indicator Address Signaling

This option provides a DC pulsing arrangement in which each digit is transmitted as a series of four marginal and polarized impulses. It is available only with Feature Group C.

(M) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to a Customer designated premises, based on the line class of service (e.g., multiparty or hotel/motel), service prefix indicator (e.g., 0-, 0+, 01+ or 011+) or service access code (e.g., 600, 700, 500, or 900). It is provided in suitably equipped end office or access tandem switches and is available with Feature Groups C and D.

4. SWITCHED ACCESS SERVICE

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.5 Optional Features (Cont'd)

(N) 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) or to the same or 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 offices or access tandem switches and is available with Feature Groups B, C, and D.

(O) Trunk Access Limitation

This option provides for the routing of originating 600, 700, 800, or 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 services which could not be completed over the subset of transmission paths in the trunk group, i.e., the choked calls, would be routed to reorder tone. It is provided in all Telephone Company electronic end offices. It is available with Feature Groups C and D.

(P) Dual Tone Multifrequency Address Signaling

This option allows reception of called party address signals from the Customer in the form of dual tone multifrequency (DTMF) signals. When Feature Group A arrangements are provided as part of a hunt group or uniform call distribution group, and the Customer requires DTMF address signaling, then all arrangements in the hunt group or uniform call distribution group will be so equipped. This option is provided in the form of a specific type of termination. It is available with Feature Group A.

(Q) Rotary Dial Station Signaling

This option provides for the transmission of called party address signaling from rotary dial stations to the Customer designated 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.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.5 Optional Features (Cont'd)

(R) Operator Trunk - Pay Telephone

This option provides for initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating pay telephone calls requiring operator assistance on a direct trunk basis. Because operator assisted pay telephone calling traffic is routed over a trunk group dedicated to operator assisted calls this feature is only provided in association with the service class routing option set forth in Section 4.2.5(M).

The operator assistance pay telephone calling feature is also normally ordered in conjunction with the ANI optional feature.

This option is available with Feature Groups C and D and is provided in Telephone Company end offices where equipment is available. It is provided as a trunk type of termination.

(S) Reserved For Future Use

(T) Reserved For Future Use

(U) 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 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 presubscription 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 carrier. This option is only provided at Telephone Company end offices or access tandems equipped for International Direct Distance Dialing and is available only with Feature Group D.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.5 Optional Features (Cont'd)

(V) Band Advance Arrangement for Use with WATS Access Lines

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 Groups C and D.

(W) 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 end offices in which WATS Access Lines are provided. It is available with Feature Groups C and D.

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

This option provides the ability to sequentially access one of two or more WATS Access Lines (e.g., 800 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, C, and D.

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

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, C, and D.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.5 Optional Features (Cont'd)

(Z) 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 multiline 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, C and D.

(AA) Intrastate Carrier Option

This option allows for Feature Group D end office or access tandem switches to forward intrastate calls of one or more carriers to the Customer, i.e., the Telephone Company is able to route originating intrastate calls to a Customer other than the one designated by the end user either through presubscription 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 carrier. This option is only provided at Telephone Company end offices or access tandems equipped with Feature Group D.

(BB) Common Channel Signaling/Signaling System 7 (CCS7)

This option allows the Customer to receive signals for call set-up out of band. This option is only available with Feature Group D. This option requires the establishment of a signaling path between the Customer's signaling point of interface and a local exchange carrier's (LECs) local Signal Transfer Point (STP).

(CC) 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 number as the calling station's charge number. The specific protocol for CPN is contained in Technical Publication TR-TSV-000905 and related documentation. CPN is an optional service available only with Feature Group D when the CCS7 option is specified. CPN will be provided to the Customer at the Customer's request.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.5 Optional Features (Cont'd)

(DD) 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 Technical Publication TR-TSV-000905 and related documentation. This feature is available only with Feature Group D when the CCS7 option is specified.

(EE) Carrier Selection Parameter (CSP)

This option provides for the automatic transmission of a signaling indicator that 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 Technical Publication TR-TSV-000905 and related documentation. This feature is available only with Feature Group D when CCS with SS7 protocol is specified.

(FF) Digital Switched 58 Service

This option allows for a connection between the Customer's premises and a suitably equipped end user's premises, using end office switching and facilities capable of transmitting digital data up to 58 Kilobits per second. Digital Switched 58 service is available with appropriately provisioned feature Group D Switched Access.

(GG) Multifrequency Address Signaling

This feature, available with FGB, FGC, and FGD, provides for the transmission of number information and control signals (e.g., number address signals, automatic number identification) between the end office switch and the Customer's premises (in either direction). Multifrequency signaling arrangements make use of pairs of frequencies out of a group of six frequencies. Specific information transmitted is dependent upon feature group and call type (i.e., POTS, coin or operator). This feature is not available in combination with SS7 signaling.

(HH) 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, would 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.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.5 Optional Features (Cont'd)

(II) Switched 64 Clear Channel Capability

This option provides for a connection capable of transmitting 64.0 kbps digital data with clear channel capability between the Customer's designated premises and a suitably equipped end office. Switched 64 Clear Channel Capability allows a Customer to transport an all zero octet over a DS1/1.544 Mbps high capacity channel providing an available combined maximum 1.536 Mbps data rate. This option requires all digital facilities, including the use of Interface Group 6 or 9, and is available only with Feature Group D from end offices capable of providing SS7 signaling, Bipolar with Eight Zero Substitution (B8ZS) line code format, and Integrated Services Digital Network (ISDN) or other switched data base services. Switched 64 Clear Channel Capability is available in suitably equipped end offices as specified in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. (T)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.6 Interim 500 Access Service

(A) Description

Interim 500 Access Service is an outgoing service providing the Customer identification function (500 NXX screening) based on the first six digits of the dialed 500 number. Originating Interim 500 Access Service is a trunk side switched service that is available to the Customer via Interim 500 Access Service trunk groups, or can be provided to the Customer in conjunction with FGC or FGD services. When combined with FGC or FGD, Interim 500 Access Service traffic can, at the option of the Customer, be carried on the same group with non-500 Access traffic. When a 1+500+NXX+XXXX or 0+500+NXX+XXXX call is originated by an end user, the Telephone Company will perform the customer identification function based on the dialed digits to determine the Customer to which the call is to be routed. If the call originates from an end office not equipped to provide the customer identification function, the call will be routed to an office where the function is available. Once Customer identification has been established, the call will be routed to the Customer.

The manner in which Interim 500 Access Service is provided depends on whether the end office/tandem from which the call originates has equal access capability with the customer identification function. In equal access end offices/tandems which have customer identification function capability, Interim 500 Access Service is provided in accordance with technical characteristics available with FGD, either direct to the end office or via and equal tandem on existing trunk groups. In end offices not equipped with equal access capabilities, Interim 500 Access Service will be provisioned in accordance with the technical characteristics available with FGC. At the Customer's option, Interim 500 Access Service, 900 Access Service and 800 Access Service may be combined on the same trunk group. For a Customer of FGC, Interim 500 Access Service can be provided through an existing trunk group or separate FGC trunk group which handles Interim 500 Access Service. At the Customer's option, Interim 500 Access Service can be provided from both equal access and non-equal access end office switches over a FGD trunk group from the access tandem to the Customer's premises if the Customer can accept, on that trunk group, both exchange access and conventional signaling.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.6 Interim 500 Access Service (Cont'd)

(A) Description (Cont'd)

At the carrier's option all 500 attempts will be passed to the identified IC, who subsequently can screen the appropriate ANI II digits for call disposition. The ANI II digits are described in Technical Reference Publication FR-64. This option is available in technically capable equal access offices. (T) (T)

Interim 500 Access Service originating from equal access end offices with the customer identification function will be provided using exchange access signaling with overlap outpulsing and ten-digit ANI. Interim 500 Access Service originating from equal access end offices/tandems without the identification function, from end offices not having equal access capability, or for calls routed through operator services, will be provided using conventional signaling. On traffic using conventional signaling, other than FGC, the Customer's facilities shall provide off hook supervision upon receipt of the transmitted digits.

Premium usage rates and charges apply to Interim 500 Access Service calls originated from end offices/tandems with equal access capability or calls originated from nonconforming offices via the Customer of FGC. Additionally, nonrecurring charges as specified in 4.1.2(E) preceding and 4.6.1 following also apply.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.6 Interim 500 Access Service (Cont'd)

(B) Technical Specifications

Interim 500 Access Service trunk groups are provided with either Type B or Type C Transmission Specifications as follows:

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

- When routed to an access tandem only Type B is provided.

- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C transmission specifications are provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2, 6 and 9, whether routed directly to an end office or to an access tandem.

Telephone Company switches and customer premises interfaces apply to Interim 500 Access Service.

(M)

(M) Material previously appearing on this page now appears on Page 52.11.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.7 OptiPoint Services

(A) Basic Service Description

OptiPoint services provide point-to-point high-speed synchronous optical fiber-based full duplex data transmission capabilities and are available as Switched Transport Entrance Facilities. There are three levels of OptiPoint services: OptiPoint-3 (OC3) is provided at a terminating bit rate of 155.52 Mbps; OptiPoint-12 (OC12) is provided at a terminating bit rate of 622.08 Mbps; and OptiPoint-48 (OC48) is provided at a terminated bit rate of 2488.32 Mbps.

OptiPoint services are provided for periods of one, three or five years. When a customer orders OptiPoint service, the customer and the Telephone Company will work cooperatively to plan, engineer, provision and manage the OptiPoint circuits. (C)

(1) Entrance Facilities

OptiPoint entrance facility channels may be used to connect the following:

- a customer designated premises to another customer designated premises, configured at wire center locations between the two premises; or

- a customer designated premises to a Telephone Company location where service configuration is performed.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.7 OptiPoint Services (Cont'd)

(A) Basic Service Description (Cont'd)

(1) Entrance Facilities (Cont'd)

(a) Based on customer requirements, OC3 service may be provisioned in the following configurations:

(i) OC3 - three Synchronous Transport Signals (STS1) channels that each contain the following:

- one DS3 or STS1 that is STS1 mapped; (C)
- up to 28 DS1s that are VT mapped;
- an STS1 channel without constraint to payload mapping; (C)

(ii) A single concatenated OC3c channel that is STS3c mapped.

(b) Based on customer requirements, OC12 service may be provisioned in the following configurations:

(i) OC12 - twelve STS1 channels which each contain: (T)

- one DS3 or STS1 that is STS1 mapped; (C)
- up to 28 DS1s that are VT mapped;
- an STS1 channel without constraint to payload mapping; (C)

(ii) Up to four concatenated OC3c channels that are STS3c mapped;

(iii) From one to three OC3c channels that are STS3c mapped, mixed with from three to nine STS1 channels subject to utilization of the total OC12 capacity; or

(iv) A single concatenated OC12c channel that is STS3c mapped. (C)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.7 OptiPoint Services (Cont'd)

(A) Basic Service Description (Cont'd)

(1) Entrance Facilities (Cont'd)

(c) Based on customer requirements, OC48 service may be provisioned in the following configurations:

(i) OC48 – forty-eight STS1 channels which each contain: (T)

- one DS3 or STS1 that is STS1 mapped; (C)

(D)

- an STS1 channel without constraint to payload mapping; (C)

(ii) Up to four concatenated OC12c channels that are STS12c mapped; (C)

(iii) Up to sixteen concatenated OC3c channels that are STS3c mapped;

(iv) From one to three OC3c channels that are STS3c mapped, mixed with from 39 to 45 STS1 channels subject to utilization of the total OC48 capacity; or

(v) From one to three OC12c channels that are STS12c mapped, mixed with from four to twelve OC3 channels subject to utilization of the total OC48 capacity.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.7 OptiPoint Services (Cont'd)

(A) Basic Service Description (Cont'd)

(1) Entrance Facilities (Cont'd)

(c) (Cont'd) (N)

Upon ordering OptiPoint service, the customer is responsible for identifying the STS signal configuration to be contained in each OC3, OC12, or OC48 service connection and each STS1, and/or STS12 payload content. This information is used in determining the route and connection in the network. If a new configuration is requested subsequent to the initial activation, a service reconfiguration charge will apply on a per service basis, as set forth in 4.7.2(D)(10). The service reconfiguration charge is in addition to all applicable configuration node and configuration card charges associated with the new configuration. (C)

OptiPoint service is provided with electronics that automatically activate in case of failure of the primary electronics. Since OptiPoint is a point-to-point service, SONET ring survivability will not be available. Rates for additional protection options requested by the customer will be quoted on an individual case basis and are in addition to the rates for OC3, OC12 and OC48 service.

OptiPoint entrance facilities provided to a customer's designated premises will be installed in a single, common space under Telephone Company control. An OptiPoint entrance facility may not be split between premises or terminated in multiple locations within a premises. The customer must provide suitable floor space, environmental controls and non-switched AC power to support the OptiPoint entrance facility at the customer's premises location.

4. SWITCHED ACCESS SERVICE (Cont'd) (N)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.7 OptiPoint Services (Cont'd)

(A) Basic Service Description (Cont'd)

(1) Entrance Facilities (Cont'd)

OptiPoint entrance facilities will be provided with or without Telephone Company provided terminal equipment at the customer's premises. When a customer elects to furnish its own terminal equipment at the customer's premises, the customer will work cooperatively with the Telephone Company to provide a compatible physical interface, and will identify approved equipment types for use in conjunction with Telephone Company provided equipment. The customer is responsible for providing all facilities and cabling necessary to connect customer provided equipment to this interface.

OC3, OC12, and OC48 services may be configured for lower bandwidth services, at suitably equipped wire centers, by using appropriate OC3, OC12, or OC48 configuration nodes as set forth in (2) following.

OptiPoint entrance facilities are available only where facilities and operating conditions permit. The Telephone Company will work cooperatively with the customer to determine if suitable existing Telephone Company SONET based facilities are available to provide the service. The Telephone Company will not provision this service on facilities that are not suitable for OptiPoint. Where facilities and/or operating conditions do not permit the provision of OptiPoint entrance facilities, and the customer desires the Telephone Company to provision OptiPoint service, Special Construction charges, as set forth in Section 10 following, may apply. (N)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.7 OptiPoint Services (Cont'd)

(A) Basic Service Description (Cont'd)

(2) Service Configuration

There are two types of charges associated with a service configuration as described following:

(a) Configuration Node - is an arrangement at the system level that allows an OC3 service bandwidth to add or drop lower level signals up to three DS3s or STS1s or three groups of twenty-eight DS1s. An OC12 service bandwidth can add or drop lower level signals up to four OC3s or twelve DS3s or STS1s or equivalent combinations of OC3s, DS3s, STS1s and DS1s. An OC48 service bandwidth can add or drop lower level signals up to four OC12s, sixteen OC3s, forty-eight DS3s or STS1s or equivalent combinations of OC12s, OC3s, DS3s and STS1s. (C)

When the customer requests that a DS1 channel be connected to an OC48 service terminating at a Telephone Company central office, a DS3 to DS1 or STS1 to DS1 multiplexing arrangement, as set forth in 4.1.2(B)(5)(e) preceding, may be required. (C)

Direct trunked transport can be connected between serving wire centers with configuration nodes at a lower OC-n speed than the channel termination, if the transport is between a lower speed configuration function and one of the following:

- another lower speed configuration function; or

- another lower speed channel termination.

All of the above terminations must be provided at the same speed as the transport.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.7 OptiPoint Services (Cont'd)

(A) Basic Service Description (Cont'd)

(2) Service Configuration

(b) Configuration Card - provides for the interface at which a channelized or lower speed service terminates or originates from an OptiPoint optical line terminated at a customer designated premises or a Telephone Company central office. DS1, DS3, OC3 concatenated, and STS-1 level cards are available for interfacing OptiPoint-3 service with lower level signals. DS1, DS3, OC3, OC3 concatenated, OC12 concatenated and STS-1 level cards are available for interfacing with OptiPoint-12 service. DS3, OC3, OC12, OC3 concatenated, OC12 concatenated and STS-1 level cards are available for interfacing with OptiPoint-48 service. When full OC3 and OC12 concatenated service is provided, no configuration node is required. (C) (C)

When a customer requests an OptiPoint service configuration, both the applicable node and card rate elements will apply. The rates for the configuration node and associated card(s) apply at the end office, and at each end of the entrance facility when Telephone Company provided terminal equipment is provided at the customer premises.

When the customer elects to furnish its own terminal equipment at the customer premises, the rates for the configuration node and associated card(s) apply only at the end of the entrance facility where Telephone Company equipment is provided.

Due to the technical limitations of SONET equipment, additional electronics are required when OptiPoint OC48 switched transport configurations exceed 66 miles. In such situations, the customer will be charged for the additional electronics on an individual case basis.

Rates and charges for the configuration node and configuration cards are set forth in 4.7.2 following. Additional labor charges as set forth in Section 8 following will apply to configuration changes for STS level service.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

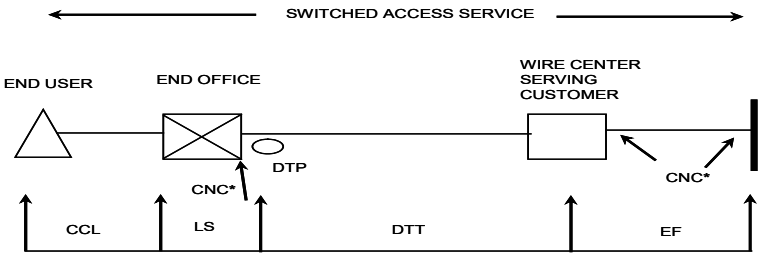
4.2.7 OptiPoint Services (Cont'd)

(A) Basic Service Description (Cont'd)

(2) Service Configuration (Cont'd)

The following diagrams depict generic views of the components of OptiPoint Service.

(a) OptiPoint Service with Telephone Company Provided Terminal Equipment at the Customer Premises



(C)

CCL: CARRIER COMMON LINE
LS: LOCAL SWITCHING
DTT: DIRECT-TRUNKED TRANSPORT
EF: ENTRANCE FACILITY
CNC: CONFIGURATION NODE & CARDS
DTP: DEDICATED TRUNK PORT

* WHERE APPLICABLE

(Z)

4. SWITCHED ACCESS SERVICE (Cont'd)

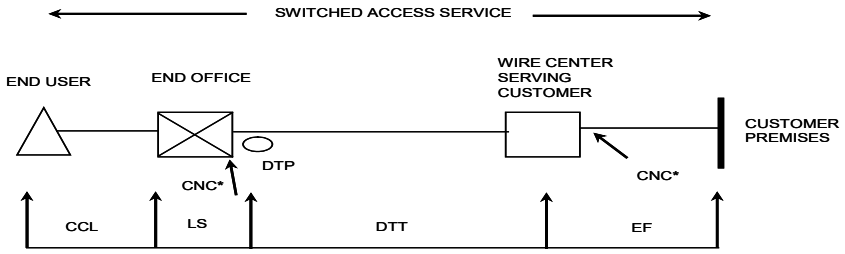
4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.7 OptiPoint Services (Cont'd)

(A) Basic Service Description (Cont'd)

(2) Service Configuration (Cont'd)

(b) OptiPoint Service without Telephone Company Provided Terminal Equipment at the Customer Premises



(C)

CCL: CARRIER COMMON LINE
LS: LOCAL SWITCHING
DTT: DIRECT-TRUNKED TRANSPORT
EF: ENTRANCE FACILITY
CNC: CONFIGURATION NODE & CARDS
DTP: DEDICATED TRUNK PORT

* WHERE APPLICABLE

(Z)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

4.2.7 OptiPoint Services (Cont'd)

(B) Regulations

The rates and charges for OptiPoint services are set forth in Section 4.7.2 following and are in addition to any applicable rates and charges set forth in any other sections of this tariff. Nonrecurring charges and monthly recurring rates applicable for OptiPoint service are billed in advance. A nonrecurring service upgrade charge as described in 4.6.1(C)(3) following may also apply to OptiPoint services. (C)

(1) Nonrecurring charges are one time charges that apply for a specific work activity (i.e., installation of service) and one developed at full cost recovery on labor hours per labor time basis. For customers who elect the one year commitment period the nonrecurring charge will apply for the installation of the service. However, if at the end of the one year commitment period the customer elects to renew their one year commitment plan, a nonrecurring charge will not apply for the renewal. (N) (N)

(2) Monthly recurring charges are flat recurring rates that apply each month or fraction thereof that a specific rate element is provided regardless of the amount of usage. For billing purposes, each month is considered to have 30 days. (T)

(3) OptiPoint service is available for minimum commitment periods of three or five years. If the customer requests that service be discontinued prior to the expiration of the one, three or five year minimum commitment period, a 50 percent penalty will be assessed for the remaining months of the term. For example, if a customer who has selected the three-year option terminates service in month 12, then that customer will be charged 50 percent of the remaining 24 months of billing. Additionally, customers may discontinue service, without penalty, should the monthly recurring rates increase by 10 percent or more at any one time. If the customer does not specify renewal terms in writing 90 days prior to the expiration of the one, three or five year service period, the commitment period and OptiPoint rates in effect at the time of expiration will automatically renew. The customer can terminate OptiPoint service at the end of the minimum commitment period with no penalty or obligation to continue the service. (T) (C) (C)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.3 Obligations of the Telephone Company (M)

In addition to the obligations of the Telephone Company set forth in Section 2, the Telephone Company has certain other obligations pertaining only to the provision of Switched Access Service. These obligations are as follows:

4.3.1 Network Management

The Telephone Company will manage its network in a nondiscriminatory manner to ensure the optimum use of the call carrying capacity of the network and to minimize the effects of traffic overloads and machine or facility failures. The Telephone Company maintains the right to apply protective controls, such as the blocking or rerouting of Customer traffic, in order to prevent or minimize the degradation of those service performance standards to other Customers. Where application of protective controls by the Telephone Company results in the interruption of a Customer's service, the provisions for credit allowance set forth in Section 2.4 shall apply. (M)

(M) Material now appearing on this page previously appeared on Original Page 52.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.3 Obligations of the Telephone Company (Cont'd)

4.3.2 Design and Traffic Routing of Switched Access Service

The Telephone Company shall design and determine the routing of Switched Access Service, including the selection of the first point of switching and the selection of facilities from the interface to any switching point and to the end offices serving the Customer. If the Customer desires routing of Switched Access Service other than that selected by the Telephone Company, the Telephone Company will, subject to its obligation to manage its network as provided in Section 4.3.1, work cooperatively with the Customer to develop routing to be used in lieu of the Telephone Company selected routing. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk group, unless the Customer specifies the directionality of calling desired. Selection of facilities and equipment and traffic routing of the service are based on standard Telephone Company traffic engineering methods, available facilities and equipment and the Telephone Company traffic routing plans.

In the event a Customer converts from FGA service to FGB service, the Telephone Company will (where the capability exists) route calls from the FGA circuits for a one-year period from the date FGA service is terminated. No additional charge will apply for this call-forwarding function.

4.3.3 Provision of Service Performance Data

Service performance data for Switched Access Service will be made available for testing requested by the Customer, based on previously arranged intervals and format. This data may include, but it is not limited to, Customer equipment blockage, failure results and transmission performance. If the Customer requests that the data be provided in other than a paper format, the cost of such exchange will be determined on an individual case basis and will be borne by the Customer.

4.3.4 Trunk Group Measurements Reports

Trunk group data in the form of usage in CCS, peg count and overflow will be made available to the Customer based on previously agreed to intervals, subject to availability.

4.3.5 Determination of Number of Transmission Paths

When ordering Switched Access Services in line quantities for Feature Group A or trunk quantities for Feature Groups B, C or D, the Customer shall specify the number of transmission paths in lines or trunks based on their expected originating and terminating traffic.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.3 Obligations of the Telephone Company (Cont'd)

4.3.5 Determination of Number of Transmission Paths (Cont'd)

The number of transmission paths provided shall be the number required based on (A) the use of access tandem switches and end office switches, (B) the use of end office switches only, or (C) the use of tandem switches only.

4.3.6 Determination of Number of End Office Terminations

For analog end office switches, a termination will be provided for each transmission path provided. For digital end office switches, an equivalent termination will be provided for each transmission path provided.

4.3.7 Design Blocking Probability

(A) For Feature Group A, no design criteria apply.

(B) For Feature Groups B, C and D, the Telephone Company will design facilities to adhere to a blocking objective no greater than one percent (.01) between the point of interface at the Customer designated premises and the first point of switching. Standard traffic engineering methods will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.

(C) The Telephone Company will perform routine measurement functions for the capacity ordered, whether ordered in lines or trunks, to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., lines or trunks) be ordered by the Customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the Feature Group C or D Capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.3 Obligations of the Telephone Company (Cont'd)

4.3.7 Design Blocking Probability (Cont'd)

(C) The Telephone Company will perform …(Cont'd)

(1) For transmission paths carrying only first routed traffic direct between an end office and the Customer designated premises without an alternate route, and for paths carrying only overflow traffic, 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 Average Business Day 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
7-336	.030	.035	.040	.060
337-504	.025	.030	.035	.055
505 or more	.020	.025	.030	.050

4. SWITCHED ACCESS SERVICE (Cont'd)

4.3 Obligations of the Telephone Company (Cont'd)

4.3.7 Design Blocking Probability (Cont'd)

(C) The Telephone Company will perform ….Cont'd)

(2) For transmission paths carrying first routed traffic between an end office and a Customer designated premises 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 Average Business Day 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	.055
4	.035	.040	.045	.055
5-6	.025	.035	.040	.045
7-336	.020	.025	.030	.040
337-504	.015	.020	.025	.035
505 or more	.010	.015	.020	.030

4. SWITCHED ACCESS SERVICE (Cont'd)

4.4 Obligations of the Customer

In addition to the Obligations of the Customer set forth in Section 2, the Customer has certain specific obligations pertaining to the use of Switched Access Service. These obligations are as follows.

4.4.1 Report Requirements

Customers are responsible for providing the following reports to the Telephone Company, when applicable.

(A) 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.

(B) Trunk Group Measurements Report

Where technologically feasible, the Customer must report trunk group data in the form of usage in CCS, peg count and overflow for its end of all access trunk groups. These data will be used to monitor trunk group utilization and service performance and should be provided at intervals and in a formal previously agreed upon.

(C) Interim 500 Access Service NXX Codes

All 500 NXX Code assignments and administration shall be in accordance with the North American Numbering Plan (NANP).

When ordering Interim 500 Access Service, NXX Codes to be activated and NXX Codes to be deactivated must be provided to the Telephone Company at least 30 calendar days prior to the effective date of the change. Customer assigned codes, for which an order has not been received, will be blocked. When Interim 500 Access Service interstate traffic is terminated on a switched access line and not on a dedicated access line, the Customer must notify the Telephone Company of all local exchange telephone numbers to which Interim 500 Access Service traffic is designated, so that the Telephone Company can balance the end office in accordance with standard Telephone Company engineering practices for heavy volume lines.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.4 Obligations of the Customer (Cont'd)

4.4.2 On and Off-Hook Supervision

The Customer's facilities shall provide the necessary on-hook and off-hook supervision.

4.4.3 Customer's V & H Location

The Customer shall provide to the Telephone Company at the time services are requested the V & H coordinates of its facilities at the point of termination.

4.5 Transmission Performance Capabilities

This section sets forth the three Standard Transmission Performances (Types A, B, and C) available with Switched Access Service. The standard for a particular transmission path is dependent on the Feature Group, the Interface Group and whether the service is routed directly or via an access tandem. In addition, WATS Access Lines are provided with Standard Transmission Performances for two-wire and four-wire. Standard Transmission Performances are set forth in Section 4.5.1. At the Customer's option, Improved Two-Wire Voice Transmission Performance, as set forth in Section 4.5.3, may be provided. In addition, Data Transmission Parameters may be ordered by the Customer. These are provided at an additional cost and are subject to local availability.

The Telephone Company will maintain existing transmission specifications on service configurations installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards in this section will be maintained at the performance levels specified in this tariff. All service configurations installed after the effective date of this tariff will conform to the transmission specifications contained in this tariff.

The transmission specifications contained in this Section are immediate action limits. Acceptance limits set forth in Technical Reference PUB 62500 and Switched Access Service maintenance limits set forth therein shall apply to this Section 4.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.1 Standard Transmission Performance

Following are descriptions of the three Standard Transmission Performances available with Switched Access Service Feature Groups and the two Standard Transmission Performances for WATS Access Lines. Their specific applications in terms of the Feature Groups and Interface Groups with which they are provided are set forth In Sections 4.2.1(C), 4.2.2(C), 4.2.3(C), and 4.2.4(C).

(A) Transmission Performance Type B

Transmission Performance Type B is provided with the following parameters:

(1) Loss Deviation

The maximum deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ±2.5 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0dB to +4.0dB.

(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 *	
	Type B1	Type B2
Less than 50	32 dBrnCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
Greater than 400	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16dBm0 holding tone is less than or equal to 47dBrnCO.

* For Feature Groups C and D only Type B2 will be provided. For Feature Groups A and B, Type B1 or Type B2 will be provided as set forth In Technical Reference TR-NPL-000334.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.1 Standard Transmission Performance (Cont'd)

(A) Transmission Performance Type B (Cont'd)

(5) Echo Path Loss

The Echo Path Loss, 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 point of termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

	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
- For FGC access (Effective 4-Wire transmission path at end office)	16 dB	11 dB
- For FGC access (Effective 2-Wire transmission path at end office)	13 dB	6 dB

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.1 Standard Transmission Performance (Cont'd)

(A) Transmission Performance Type B (Cont'd)

(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 interface shall be greater than:

Echo Return Loss:	5 dB
Singing Return Loss:	2.5 dB

(B) Transmission Performance Type C

Transmission Performance Type C is provided with the following parameters:

(1) Loss Deviation

The maximum deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) ±3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804Hz frequency band relative to loss at 1004Hz is -2.0dB to +5.5dB.

(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 *	
	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
Greater than 400	39 dBrnCO	45 dBrnCO

* For Feature Groups C and D only Type C2 will be provided. For Feature Groups A and B, Type C1 and C2 will be provided as set forth in Technical Reference TR-NPL-000334.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.1 Standard Transmission Performance (Cont'd)

(B) Transmission Performance Type C (Cont'd)

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a 16dBm0 holding tone is less than or equal to 47dBrnC0.

(5) Return Loss

The Return Loss, 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 point of termination (POT) to the end office or via an access tandem. They are 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

(C) Transmission Performance Type A

Transmission Performance Type A is provided with the following parameters:

(1) Loss Deviation

The maximum 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 loss at 1004 Hz is -1.0 dB to +3.0 dB.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.1 Standard Transmission Performance (Cont'd)

(C) Transmission Performance Type A (Cont'd)

(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 dBrnC0
51 to 100	34 dBrnC0
101 to 200	37 dBrnC0
201 to 400	40 dBrnC0
Greater than 400	42 dBrnC0

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 45 dBrnC0.

(5) Echo Path Loss

The Echo Path Loss, 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 point of termination (POT) to the end office or via an access tandem. They are equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	21 dB	14 dB
POT to End Office		
- Direct	NA	NA
- 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

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.1 Standard Transmission Performance (Cont'd)

(D) WATS Access Line Standard Transmission Performance

(1) Standard Two-Wire Voice Transmission Performance

(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 dBrnC0
51 to 100	37 dBrnC0
101 to 200	40 dBrnC0
201 to 400	43 dBrnC0
401 to 1000	45 dBrnC0

(d) Echo Control

Return Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or great than:

ERL	6.0 dB
SRL	3.0 dB

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.1 Standard Transmission Performance (Cont'd)

(D) WATS Access Line Standard Transmission Performance (Cont'd)

(2) Standard Four-Wire Voice Transmission Performance

(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.

(b) 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 +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 dBrnC0
51 to 100	37 dBrnC0
101 to 200	40 dBrnC0
201 to 400	43 dBrnC0
400 to 1000	45 dBrnC0

(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

4.5.2 Data Transmission Parameters

There are two types of Data Transmission Parameters, i.e., Type DA and Type DB, which are provided. Following are descriptions of each.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.2 Data Transmission Parameters (Cont'd)

(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.

(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 65 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion is 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.

4. SWITCHED ACCESS SERVICE(Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.2 Data Transmission Parameters (Cont'd)

(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.

(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 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion is 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.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.2 Data Transmission Parameters (Cont'd)

(C) Data Transmission Parameters - WATS Access Line

(1) Signal to C-Notched Noise Ratio

The maximum Signal-to-Notched Noise Ratio is 30 dB.

(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 dBrnC0 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.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.3 WATS Access Line - Improved Two-Wire Voice Transmission Performance

(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.

(B) 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 +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 dBrnC0
51 to 100	37 dBrnC0
101 to 200	40 dBrnC0
201 to 400	43 dBrnC0
401 to 1000	45 dBrnC0

(D) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or great than:

ERL	6.0 dB
SRL	3.0 dB

4 SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.4 Interface Groups

Four 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 4.1.2(B)(5) preceding.

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, 6 and 9 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. (T)

Only certain premises interfaces are available at the Customer's premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups. The various premises interfaces which are available with the Interface Groups, and the Feature Groups with which they may be used, are set forth in 4.5.4(J) following.

(A) Interface Group 1

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

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

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.4 Interface Groups (Cont'd)

(A) Interface Group 1 (Cont'd)

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 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, FGC, or FGD, such signaling, except for two-way calling that is E&M signaling, will be reverse battery signaling.

(B) Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the Customer's premises. 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.

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, FGC, or FGD, such signaling, except for two-way calling that is E&M signaling, will be reverse battery signaling.

(C) Reserved For Future Use

(D) Reserved For Future Use

(E) Reserved For Future Use

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.4 Interface Groups (Cont'd)

(F) Interface Group 6

Interface Group 6 provides 051 level digital transmission at the point of termination at the Customer's premises. 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.

(G) Reserved for Future Use

(H) Reserved for Future Use

(I) Interface Group 9

Interface Group 9 provides DS3 level digital transmission at the point of termination at the Customer's premises. 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.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities (Cont'd)

4.5.4 Interface Groups (Cont'd)

(J) 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 Section 7.3.1 following.

Interface Group	Company Switch Supervisory Signaling	Telephone Interface Code	Premises Feature Group A	B	C	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	X
	RV, EA, EB, EC	4EA3-E		X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X
	EA, EB, EC	6EC3			X	X
	RV	2RV3-O		X	X	X
	RV	2RV3-T		X	X	X

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities Cont'd)

4.5.4 Interface Groups (Cont'd)

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

Interface Group	Company Switch Supervisory Signaling	Telephone Interface Code	Premises Feature Group A	B	C	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-Bx	X			
	RV, EA, EB, EC	4SF2		X	X	X
	RV, EA, EB, EC	4SF3		X		
	RV, EA, EB, EC	4DX2		X	X	X
	RV, EA, EB, EC	4DX3		X		
	RV, EA, EB, EC	6DX2			X	
	RV, EA, EB, EC	6EA2-E		X	X	X
	RV, EA, EB, EC	6EA2-M		X	X	X
	RV, EA, EB, EC	8EB2-E		X	X	X
	RV, EA, EB, EC	8EB2-M		X	X	X
	EA, EB, EC	8EC2-M			X	X
	RV	4RV2-O		X	X	X
	RV	4RV2-T		X	X	X
	RV	4RV3-O		X	X	
	RV	4RV3-T		X	X	

4. SWITCHED ACCESS SERVICE (Cont'd)

4.5 Transmission Performance Capabilities Cont'd)

4.5.4 Interface Groups (Cont'd)

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

Interface Group	Company Switch Supervisory Signaling	Telephone Interface Code	Premises Feature Group A	B	C	D
6	LO, GO	4DS9-15	X			
	LO, GO	4DS9-15L	X			
	RV, EA, EB, EC	4DS9-15		X	X	X
	RV, EA, EB, EC	4DS9-15L		X	X	X
9	LO, GO	4D56-44	X			
	LO, GO	4D56-44L	X			
	RV, EA, EB, EC	4D56-44		X	X	X
	RV, EA, EB, EC	4D56-44L	X	X	X	

4.6 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply to Switched Access Service.

4.6.1 Types of Rates and Charges

There are four types of rates and charges that may apply to Switched Access Service. These are monthly recurring rates, usage rates, nonrecurring charges and zone density charges. These rates and charges are applied differently to the various rate elements as set forth following. (C) (C)

(A) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a specific rate element is provided regardless of the amount of usage. Monthly rates may be either distance sensitive (per mile) or non-distance sensitive (fixed). 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 minutes basis or on a per query basis. Usage rates may be either distance sensitive (per mile) or non-distance sensitive (fixed). Access minute charges are accumulated over a monthly period.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges

(1) Facilities Access Order Charge

Nonrecurring Charges are one-time charges that apply for a specific work activity (e.g., receiving, recording and processing information necessary to execute a Customer's Facilities Access Order for Access Services). Nonrecurring charges are set forth in Section 9.2 and will apply to each order received.

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.

(2) Interim 500 Access Service

A nonrecurring charge as specified in 4.7.5 following applies each time a change is made which involves the addition or deletion of 500 NXX codes to be routed to the Customer. The charge is assessed per 500 NXX code added or deleted for each Telephone Company end office switch or access tandem in which translation charges are required. This charge applies to the initial loading of one or more 500 NXX codes required to establish service for the Customer, and to any subsequent changes (i.e., additions or deletions) to those codes. There is also an Assembly of Route Pattern nonrecurring charge which applies once for each Telephone Company end office, but only on the Customer's initial request to the Telephone Company for Interim 500 Access Service in each state, LATA, access tandem, or end office.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements

Service rearrangements are changes to existing services installed that do not result in either a change in the minimum period requirements as set forth in Section 9.2.4 following or a change in the physical location of the Point of Termination at the customer's premises or the customer's end user's premises. Changes that result in the establishment of new minimum period obligations are treated as disconnects and starts. Changes in the physical location of the Point of Termination are treated as moves and are described and charged for as set forth in 4.6.6 following. (N)

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

Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Access Service to the same entity (i.e., customer remains responsible for all outstanding indebtedness for the Access Service). Administrative changes are as follows:

- Change of customer name (i.e., the customer of record does not change, but rather the customer of record changes its name--e.g., AT&T-Long Lines to AT&T-Communications),
- 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 in 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,
- Change of jurisdiction. (N)

(M)

(M) Material previously appearing on this page now appears on Page 76.2.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

All other service rearrangements will be charged for as follows:

- If the change involves the addition of or a modification to an optional feature that has a separate nonrecurring charge, that nonrecurring charge will apply.

- The nonrecurring charges associated with upgrades in capacity (i.e., multiple DS0s converting to DS1s or multiple DS1s converting to DS3s) will not apply when the customer maintains the same customer premises location. Requests to add or change optional features will be subject to the nonrecurring charges associated with the features requested.

- A nonrecurring service upgrade charge, as set forth in 4.7.2(D)(9) following, will apply per DS1 or DS3 upgraded when converting existing high capacity services. (D)

(D)

(D) Zone Density Charges (N)

Zone density charges are applicable only to DS1 and DS3 switched access services (i.e., Entrance Facility, Direct-Trunked Transport, Tandem Switched Transmission, Tandem Switching, and DS1 to Voice and DS3 to DS1 Multiplexing) provided at the Telephone Company designated exchanges set forth following. Zone density charges are recurring rates that apply each month or fraction thereof that a DS1, DS3 switched access service is provided. For billing purposes, each month is considered to have 30 days (N)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.1 Types of Rates and Charges (Cont'd)

(D) Zone Density Charges (Cont'd)

Zone density charges are applicable only to DS1 and DS3 switched access services (i.e., Entrance Facility, Direct-Trunked Transport, Tandem Switched Transmission, Tandem Switching, and DS1 to Voice, DS3 to DS1 Multiplexing) provided at the Telephone Company designated exchanges set forth following. Zone density charges are recurring rates that apply each month or fraction thereof that a DS1, or DS3 switched access service is provided. For billing purposes, each month is considered to have 30 days

The services subject to the Zone Density Plan are dependent upon the zone in which the Telephone Company serving area is located. Direct-Trunked Transport and Tandem Switched Transmission provided between wire centers in different zones will be assessed the rate for the higher zone. Specific Zone Density Charges are set forth in Section 4.7 following. The zones for the Telephone Company serving area are identified following:

Price Cap Zones

Zone 1		Zone 2		Zone 3	
End Office	CLLI	End Office	CLLI	End Office	CLLI
Martinsville	MTVIVAXA	Blackstone	BLCSVAXA	All Other	All Other
		Farmville	FRVLVAXA		
		Front Royal	FRRYVAXA		
		Lexington	LXTNVAXA		
		Rocky Mount	RCMTVAXA		
		South Boston	SBTNVAXA		

(E) Pricing Flexibility for Metropolitan Statistical Areas

The Company was granted Phase II pricing flexibility by the FCC pursuant to Subpart H of Part 69 of the FCC rules. The specific MSAs for which pricing flexibility has been granted are as follows:

Price Flex Zones - Charlottesville MSA

Zone 1		Zone 2		Zone 3	
End Office	CLLI	End Office	CLLI	End Office	CLLI
Charlottesville	CHVLVAXA	None	None	Crozet	CRZTVAXA
Charlottesville	CHVLVAXB			Fort Union	FKUNVAXA
				Palmyra	PLMYVAXA
				Schuyler	SCHLVAXA
				Scottsville	SCVLVAXA
				Stanardsville	SDVLVAXA

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.2 Minimum Periods

The minimum service period for all Switched Access Services is one month, with the exception of OptiPoint Services and Feature Group D. Feature Group D is provided for a minimum period of three months. (C)

4.6.3 Minimum Monthly Charge

Switched Access Service is subject to a minimum monthly charge. The minimum charge applies to each transmission path by Feature Group provided to the Customer at an end office. The minimum monthly charge consists of the following.

(A) Reserved For Future Use

(B) For usage rated Switched Access Services, the minimum monthly charge or the Tandem-Switched Transport and Local Switching rate elements is the sum of the charges set forth in 4.7.2(C) and 4.7.3 for the measured or assumed usage for the month. For flat rated Switched Access Services the minimum monthly charge for the Entrance Facility and Direct-Trunked Transport rate elements is the applicable monthly rate for the service.

4.6.4 Reserved For Future Use

4.6.5 Change of Feature Group Type

Changes from one type of Feature Group to another, will be treated as discontinuance of one type of service and a start of another. The nonrecurring charges set forth in Section 9.2 will apply except where any Feature Group service is upgraded to FGD or from FGA to FGB. In those two instances, minimum period obligations on upgrading Feature Group service will not change; i.e., the time elapsed in the existing minimum period will be credited to the new minimum period obligations on an upgraded service. For all other changes from the one type of Feature Group to another, new minimum period obligations will be established.

To avoid the nonrecurring charges set forth in Section 9.2 for upgrading service to FGD, the IC must submit its disconnect order for FGA and FGB within thirty (30) days after the date the results of the final allocation of End Users are actually received by the IC pursuant to Section 8.3.4. The effective date for the disconnection may be no later than sixty (60) days after the allocation results are received by the IC.

At the time the Customer upgrades from FGA, FGB, or FGC to FGD, the Customer may also change the facility used to provide the upgraded service. This change will be made at no additional charge and may include a change in the connection type (e.g., Voice Grade to DS1) and/or a change in the facility type (e.g., Direct-Trunked Transport to Tandem-Switched Transport).

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.6 Moves

A move involves change in the physical location of one of the following:

- The point of termination at the Customer designated premises
- The Customer designated premises

The charges for the move and the associated minimum period obligations are dependent on whether the move is to a new location within the same wire center area or to a different wire center area.

(A) Moves to a Different Wire Center Area

When a Customer designated premises is moved to a different wire center area, the move will be treated as a disconnect and a start of service. Facilities Access Order charges, as set forth in Section 9, will apply and a new minimum period will be established. The Customer will also remain responsible for fulfilling all outstanding minimum period obligations associated with the disconnected service.

(B) Moves to a Different Building within the Same Wire Center

When a Customer designated premises is moved to a new location in a different building in the same wire center area, Facilities Access Order charges, as set forth in Section 9, will apply and the existing minimum period obligations will continue in effect.

(C) Moves within the Same Building

When a Customer designated premises is moved to a new location within the same building in the same wire center area, Facilities Access Order charges, as set forth in Section 9, will apply and the existing minimum period obligations will continue in effect.

4.6.7 Accumulation of Number of Transmission Paths

The number of transmission paths used to determine the charges as set forth in Section 4.7 shall be the sum of the number of paths actually provided as set forth In Section 4.3.5.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6. Rate Regulations (Cont'd) (T)

4.6.8 Measuring Access Minutes

Customer traffic to end office switches will be measured at end office switches or access tandem switches. At end offices or tandem switches equipped for full time measurement capability, originating and terminating calls will be measured by the Telephone Company to determine minutes of use. In some instances, this measurement is accomplished on a 100-second scan basis. At end offices providing Feature Group A where measurement capability does not exist, a surrogate assumed monthly access minute of use figure per line amounting to 7000 for two-way service will apply. Where the Feature Group A service is arranged for originating only usage, a surrogate assumed monthly access minute of use figure per line amounting to 3702 will be used. Where the Feature Group A service is arranged for terminating only usage, a surrogate assumed monthly access minute of use figure per line amounting to 3298 will be used. When a Feature Group A service is arranged for two-way use and usage cannot be measured in one of the two directions, a surrogate assumed monthly access minute of use figure per line amounting to 7000, or the usage in the measured direction, whichever is greater, will be used. (T)

At end offices providing Feature Group B where measurement capability does not exist, a surrogate assumed monthly access minute of use figure per trunk amounting to 9000 for two-way service will apply. Where the Feature Group B service is arranged for originating only usage, a surrogate assumed monthly access minute of use figure per trunk amounting to 4500 will be used. Where the Feature Group B service is arranged for terminating only usage, a surrogate assumed monthly access minute of use figure per trunk amounting to 4500 will be used. When a Feature Group B service is arranged for two-way use and usage cannot be measured in one of the two directions, a surrogate assumed monthly access minute of use figure per trunk amount to 9000, or the usage in the measured direction, whichever is greater, will be used.

For originating calls over FGC, chargeable originating access minutes are derived from measured conversation minutes and through the use of Telephone Company factors. Chargeable terminating minutes for FGC are derived on an individual entity basis from measured originating conversation minutes through the application of a terminating to originating factor (T/O). The Telephone Company will be responsible for determining the T/O factor, and will provide supporting detail to the customer on a quarterly basis upon request.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.9 Network Blocking Charge for Feature Group D

The Customer will be notified by the Telephone Company to increase its capacity (quantities of trunks) when excessive trunk group blocking occurs on groups carrying Feature Group D traffic. Excessive trunk group blocking occurs when the blocking thresholds as described in 4.3.7 preceding are exceeded. If the order for sufficient additional capacity to handle the Customers' traffic has not been received by the Telephone Company within 15 days of the notification, the Telephone Company will bill the Customer, at the rate set forth in 4.7.2(E) following, for each overflow in excess of the chargeable threshold.

Chargeable Thresholds

For Trunk Groups As Specified in 4.3.7(C)(1)

Trunk Group Size	Allowable Overflows Per Trunk Per Month
1-2	18
3-4	19
5-6	13
7-40	10
41-139	9
140-500	8
501 or greater	7

For Trunk Groups As Specified in 4.3.7(C)(2)

Trunk Group Size	Allowable Overflows Per Trunk Per Month
1-4	10
5-6	8
7-125	6
126 or greater	5

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.10 Message Unit Credit

The monthly bills rendered to Customers for their Feature Group A Switched Access Service will include a credit to reflect any local message unit charges collected by the Telephone Company from its End Users for calls to Customers' interexchange service. No credit is given for toll charges. This credit applies to the Local Switching rate element, is applicable only for originating calls and is calculated on an exchange-by-exchange basis. Where LMS is available and to the extent the Telephone Company can prevent end users from being billed message units when accessing a Customer's service, no message unit credits will be given the Customer.

4.6.11 Certain Local Services

Customers will be billed charges for calls over Switched Access Service in the terminating direction to certain community information services, for which rates are applicable under Telephone Company Exchange tariffs, e.g., DIAL-IT Network Services.

4.6.12 Reserved For Future Use

4.6.13 Charges

Rates are applied as premium rates.

(A) Premium rates apply to all FGA, FGB, FGC, and FGD access minutes, including Interim TFC, all other access minutes used to provide MTS or WATS services, and all access minutes that originate or terminate at end offices.

(B) Reserved For Future Use

(C) The Customer will have the choice of converting existing services to equal access (i.e., Feature Group D) at no charge or retaining the existing services beginning on the date FGD is available to the Customer at the end office.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.14 Mileage Measurement

The mileage to be used to determine the monthly rate for Direct-Trunked and Tandem-Switched Transport is calculated on the airline distance between the end office switch where the call carried by Switched Transport Service originates or terminates, and the Customer's serving wire center, except as set forth in (A) through (M) following. Where applicable, the V & H coordinates method is used to determine mileage. This method is set forth in the National Exchange Carrier Association, Inc. Tariff FCC No. 4. If the method results in fractional miles, the fractional miles are rounded up to the nearest whole number before determining the rate to be billed. (T)

Exceptions to the mileage measurement rules are as follows:

(A) When Switched Transport facilities of different capacities or bandwidths are interconnected by a multiplexer at a location other than the serving wire center, mileage is determined using the V & H coordinates method as set forth following:

(1) When only one multiplexer is involved, mileage for Direct-Trunked Transport and Tandem-Switched Transport is measured separately from the serving wire center to the hub where multiplexing (i.e., facilities interconnection) occurs and then measured from the hub to the end office where the call is switched to originate or terminate.

(2) When more than one multiplexer is involved, mileage for Direct-Trunked Transport and Tandem-Switched Transport is measured successively from the serving wire center to the first hub, from the first hub, to the second hub, and then from the second hub to the end office where the call is switched to originate or terminate. If more than two hubs are involved, mileage is measured successively between each intervening hub, with the final measurement being from the last hub to the end office where the call is switched to originate or terminate.

(B) When transport is provided to a host/remote arrangement, Tandem-Switched Transmission rates apply from the host office to the associated RSMs/RSSs. Mileage for Tandem-Switched Transmission is calculated from the V & H coordinates of the host office and the RSS/RSM where the call originates or terminates. Additional Tandem-Switched Transport or Direct-Trunked Transport rates apply depending on the transport service provided from the host remote arrangement.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.14 Mileage Measurement (Cont'd)

(C) When Switched Transport is provided to a Class 4/5 switch (i.e., a switch that functions as both an access tandem and end office) for both access tandem routing and end office routing, mileage is calculated using the V & H coordinates method. As set forth in 4.1.2 preceding, Switched Transport from the serving wire center to the hub that interconnects the Direct-Trunked Transport and the Tandem-Switched Transport facilities is considered to be Direct-Trunked Transport. (T)

Direct-Trunked Transport is measured from the serving wire center to the hub interconnecting the Tandem-Switched Transport and the Direct-Trunked Transport facilities and then measured from the hub to the end office.

Tandem-Switched Transmission is measured from the hub interconnecting the Tandem-Switched Transport and the Direct-Trunked Transport facilities to the end office where the call is switched to originate or terminate.

(D) When Direct-Trunked Transport is provided for line side Switched Access Services (i.e., FGA), both Direct-Trunked Transport and Tandem-Switched Transmission rates apply.

Direct-Trunked Transport applies to both originating and terminating usage, and mileage is calculated using the V & H coordinates of the Customer's serving wire center and the end office switch where the dial tone for the line side Switched Access Service is provided.

Tandem-Switched Transmission applies only to terminating usage, and mileage is calculated using the V & H coordinates of the dial tone office and the end office where the call is switched to terminate.

(E) Mileage for access minutes in the originating direction over 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 is provided.

(F) When trunks are rerouted from an end office to an access tandem, the Switched Transport mileage will be calculated on the airline distance between the end office and the serving wire center of the Customer's POP associated with that access tandem.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.14 Mileage Measurement (Cont'd)

(G) When the Alternate Traffic Routing optional feature is provided with Feature Groups B, C, and D to provide service from an end office to different Customer premises locations, usage rated Switched Transport access minutes will be apportioned between the two transmission routes used to provide this feature. For Feature Groups B and C, such apportionment will be made using standard Telephone Company traffic engineering methodology and will be based on the last trunk CCS desired for the high usage group, and the relative capacity ordered to the end office, when the feature is provided at an end office switch, or to the subtending end offices when the feature is provided at an access tandem switch. For Feature Group D, the apportionment will be based on the actual measured data that is recorded against the specific trunk group that carried a particular call. This apportionment will serve as the basis for the Switched Transport mileage calculation. The Customer will be billed accordingly.

(H) Switched Transport mileage for access minutes originating from or terminating at a remote switching system (RSS) or remote switching module (RSM) that shares an NXX with its host will be based on the airline miles between the Customer's serving wire center and the host office. Switched Transport mileage for access minutes originating from or terminating at an RSS or RSM that has its own NXX (i.e., different from the host's NXX will be based on the airline miles between the Customer's serving wire center and the RSS or RSM.

(I) When terminating Feature Group C Switched Access Service is provided from multiple Customer premises to an end office not equipped with measurement capabilities, the total Switched Transport access minutes for that end office will be apportioned among the trunk groups accessing the end office on the basis of the capacity ordered for each FGC trunk group. This apportionment will serve as the basis for Switched Transport mileage calculation and the Customer will be billed accordingly.

(J) When FGA calls terminate outside the local calling area of the dial tone office, the Switched Transport mileage will be calculated on an airline basis between the Customer's serving wire center and the end office where the call terminates.

(K) Switched transport mileage for Interim 500 and 800 Access Service is based on the airline distance between the end office switch where the Interim 500 and TFC Access Service traffic originates and the Customer's serving wire center.

4. SWITCHED ACCESS SERVICE

4.6 Rate Regulations (Cont'd)

4.6.14 Mileage Measurement (Cont'd)

(L) Reserved For Future Use

(M) Where Feature Groups A, B, C, and D Switched Access Services are connected with Special Access Service at a WATS Serving Office, the Telephone Company will measure mileage on an airline mileage basis between:

(1) The WATS Serving Office and the Serving Wire Center for the Customer designated premises, or

(2) The Feature Group A or B entry switch and the Serving Wire Center for the Customer designated premises.

4.6.15 Shared Use

Shared Use occurs when Switched Access Service and Special Access Service are provided over the same analog or digital high capacity service through a common interface. The regulations governing the provision of Shared Use Facilities are set forth in Section 5.4.5.

4.6.16 Application of Rates for Extension Service

Feature Group A Switched Access Service and Feature Group C and D WATS Access Lines are available with extensions, i.e., additional terminations of the service at different building(s) in the same or a different LATA. Feature Group A extensions within the LATA are provided and charged for under the Telephone Company's local and/or general exchange service tariffs. Feature Group A extensions in different LATAs and WATS Access Line extensions in the same or different LATAs are provided and charged for as Special Access Service. The rate elements which apply are Voice Grade Channel Termination, Channel Mileage, if applicable, and Signaling Capability (optional features and functions), if applicable. All appropriate monthly rates and nonrecurring charges set forth in 5.5 following will apply.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.17 Facility Hubs

A Customer has the option of ordering DS1, DS3 or STS1 facilities to a facility hub for channelizing to individual services requiring lower capacity facilities. Switched Transport provided to or from a hub not located at an access tandem will be provided as Direct-Trunked Transport. (C)

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 voice may occur at a different location. When ordering, the Customer must specify the desired multiplexing hub(s) selected from the National Exchange Carrier Association, Inc. Tariff FCC No. 4. This tariff identifies the type(s) of multiplexing functions that are available and the wire centers at which they are available.

Some of the types of multiplexing available include the following:

- From higher to lower bit rate
- From digital to voice frequency channels

End to end services may be provided on channels of these facilities to a hub. The transmission performance for the end to end service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a DS1 facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not DS1.

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. 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 will be billed for a DS1, DS3 or STS1 Channel Termination, Channel Mileage (when applicable), and multiplexing at the time the facility is installed. Individual service rates (by service type) will apply for a 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. (T) (C) (T) (T)

Cascading multiplexing occurs when a DS1, DS3 or STS1 facility is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a DS3 facility is de-multiplexed to twenty-eight DS1 facilities, and then one of the DS1 facilities is further de-multiplexed to individual Voice Grade channels. (C)

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 hub locations, Channel Mileage charges also apply between the hubs.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.6 Rate Regulations (Cont'd)

4.6.18 Interim 500 Access Service Usage Measurement

Usage measurement from non-equal access and equal access end offices without the customer identification function begins when the originating end office switch receives oft-hook supervision forwarded from the Customer's point of termination, indicating the transmitted digits have been received, except for FGC as stated following.

Usage measurement for FGC begins when the originating end office receives off-hook answer supervision forwarded from the Customer's point of termination, indicating the called party has answered.

Usage measurement from equal access end offices with the customer identification function begins when the originating end office switch receives the first wink supervisory signal forwarded from the Customer's point of termination.

In all cases, usage measurement ends when the originating end office receives on-hook 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, which ever is recognized first by the end office.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges

4.7.1 Reserved For Future Use

4.7.2 Switched Transport

(A) Entrance Facility

(1) Voice Grade - Per Point of Termination

	Price Zone Type	Monthly Rate	Nonrecurring Charge	
Two Wire				
Charlottesville MSA	Flex	$61.00 (I)	$92.00 (I)	(C)
All Other	Cap	37.75	83.50	(N)
Four Wire				
Charlottesville MSA	Flex	77.00 (I)	92.00 (I)	(C)
All Other	Cap	47.75	83.50	(N)

(2) DS1 - Per DS1

Zone	Price Zone Type	Monthly Rates			Nonrecurring Installation Charge	
		Within CO	0 – 3 Miles	Over 3 Miles		
1 - Charlottesville	Flex	$160.00 (R)	$200.00 (I)	$235.00 (I)	$700.00 (I)	(C)
1 - Martinsville	Cap	129.90 (R)	129.90 (R)	129.90 (R)	325.00	
2 - All	Cap	132.90 (R)	132.90 (R)	132.90 (R)	325.00	
3 - Crozet	Flex	207.00 (I)	270.00 (I)	310.00 (I)	700.00 (I)	
3 - Fort Union	Flex	207.00 (I)	270.00 (I)	310.00 (I)	700.00 (I)	
3 - Palmyra	Flex	207.00 (I)	270.00 (I)	310.00 (I)	700.00 (I)	
3 - Schuyler	Flex	207.00 (I)	270.00 (I)	310.00 (I)	700.00 (I)	
3 - Scottsville	Flex	207.00 (I)	270.00 (I)	310.00 (I)	700.00 (I)	
3 - Stanardsville	Flex	207.00 (I)	270.00 (I)	310.00 (I)	700.00 (I)	
3 – All Other	Cap	147.40 (R)	147.40 (R)	147.40 (R)	325.00	(C)

(3) DS3 - Per Point of Termination

Zone	Price Zone Type	Monthly Rates			Nonrecurring		
		Within CO	0 – 3 Miles	Over 3 Miles	Installation Charge	Rearrangement Charge	
1 - Charlottesville	Flex	$1,114.00 (R)	$1,820.00 (I)	$3,120.00 (I)	$800.00 (I)	$400.00 (I)	(C)
1 - Martinsville	Cap	782.20 (R)	1,027.60 (R)	1,804.50 (R)	500.00	250.00	
2 - All	Cap	816.80 (R)	1,067.50 (R)	1,886.50 (R)	500.00	250.00	
3 - Crozet	Flex	1,308.00 (I)	2,110.00 (I)	3,520.00 (I)	800.00 (I)	$400.00 (I)	
3 - Fort Union	Flex	1,308.00 (I)	2,110.00 (I)	3,520.00 (I)	800.00 (I)	$400.00 (I)	
3 - Palmyra	Flex	1,308.00 (I)	2,110.00 (I)	3,520.00 (I)	800.00 (I)	$400.00 (I)	
3 - Schuyler	Flex	1,308.00 (I)	2,110.00 (I)	3,520.00 (I)	800.00 (I)	$400.00 (I)	
3 - Scottsville	Flex	1,308.00 (I)	2,110.00 (I)	3,520.00 (I)	800.00 (I)	$400.00 (I)	
3 - Stanardsville	Flex	1,308.00 (I)	2,110.00 (I)	3,520.00 (I)	800.00 (I)	$400.00 (I)	
3 – All Other	Cap	864.20 (R)	1,140.90 (R)	2,006.40 (R)	500.00	250.00	(C)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(A) Entrance Facility (Cont'd)

(4) OptiPoint-3 With Telephone Company Provided Terminal Equipment

(a) One Year Commitment Rates - Per Point of Termination (T)

(C)

Zone	Price Zone Type	Monthly Rates: Within CO	Monthly Rates: 0 – 3 Miles	Monthly Rates: Over 3 Miles	Nonrecurring Installation Charge
1 - Charlottesville	Flex	$1,806.00 (R)	$3,125.00 (R)	$4,169.00 (R)	$5,290.00
1 - Martinsville	Cap	1,806.00 (R)	3,125.00 (R)	4,169.00 (R)	5,290.00
2 – All	Cap	1.875.00 (R)	3,250.00 (R)	4,863.00 (R)	5,290.00
3 - Crozet	Flex	1,938.00	3,406.00	5,556.00	5,290.00
3 - Fort Union	Flex	1,938.00	3,406.00	5,556.00	5,290.00
3 - Palmyra	Flex	1,938.00	3,406.00	5,556.00	5,290.00
3 - Schuyler	Flex	1,938.00	3,406.00	5,556.00	5,290.00
3 - Scottsville	Flex	1,938.00	3,406.00	5,556.00	5,290.00
3 - Stanardsville	Flex	1,938.00	3,406.00	5,556.00	5,290.00
3 – All Other	Cap	1,938.00	3,406.00	5,556.00	5,290.00

(C)

(b) Three Year Commitment Rates - Per Point of Termination

(C)

Zone	Price Zone Type	Monthly Rates: Within CO	Monthly Rates: 0 – 3 Miles	Monthly Rates: Over 3 Miles
1 - Charlottesville	Flex	$1,445.00(R)	$2,425.00(R)	$3,235.00(R)
1 - Martinsville	Cap	1,445.00(R)	2,500.00(R)	3,335.00 R)
2 – All	Cap	1,500.00(R)	2,600.00(R)	3,890.00 R)
3 - Crozet	Flex	1,550.00	2,643.00(R)	4,312.00 R)
3 - Fort Union	Flex	1,550.00	2,643.00(R)	4,312.00 R)
3 - Palmyra	Flex	1,550.00	2,643.00(R)	4,312.00 R)
3 - Schuyler	Flex	1,550.00	2,643.00(R)	4,312.00 R)
3 - Scottsville	Flex	1,550.00	2,643.00(R)	4,312.00 R)
3 - Stanardsville	Flex	1,550.00	2,643.00(R)	4,312.00 R)
3 - All Other	Cap	1,550.00	2,725.00	4,445.00

(C)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(A) Entrance Facility (Cont'd)

(5) (4) OptiPoint-3 With Telephone Company Provided Terminal Equipment

(c) Five Year Commitment Rates - Per Point of Termination (M) (T)

Zone	Price Zone Type	Monthly Rates			(C)
		Within CO	0 – 3 Miles	Over 3 Miles	
1 - Charlottesville	Flex	$1,300.00 (R)	$2,160.00 (R)	$2,910.00 (R)	
1 - Martinsville	Cap	1,300.00 (R)	2,250.00(R)	3,000.00(R)	
2 - All	Cap	1,350.00 (R)	2,350.00(R)	3,500.00(R)	
3 - Crozet	Flex	1,400.00	2,377.00(R)	3,880.00(R)	
3 - Fort Union	Flex	1,400.00	2,377.00(R)	3,880.00(R)	
3 - Palmyra	Flex	1,400.00	2,377.00(R)	3,880.00(R)	
3 - Schuyler	Flex	1,400.00	2,377.00(R)	3,880.00(R)	
3 - Scottsville	Flex	1,400.00	2,377.00(R)	3,880.00(R)	
3 - Stanardsville	Flex	1,400.00	2,377.00(R)	3,880.00(R)	
3 - All Other	Cap	1,400.00	2,450.00	4,000.00	(M) (C)

(5) OptiPoint-3 Without Telephone Company Provided Terminal Equipment

(a) One Year Commitment Rates – Per Point of Termination (T)

	Price Zone Type	Monthly Rates			Nonrecurring Installation Charge	(C)
		Within CO	0 – 3 Miles	Over 3 Miles		
Zone 1	All	$1,075.00 (R)	$2,394.00 (R)	$3,569.00 (R)	$4,070.00	
Zone 2	All	1.113.00 (R)	2,488.00 (R)	4,163.00 (R)	4,070.00	
Zone 3	All	1,150.00	2,606.00	4,763.00	4,070.00	(C)

(M) This material previously appeared on Page 88.1.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(A) Entrance Facility (Cont'd)

(6) Reserved for Future Use (C)

(D)

(D)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(A) Entrance Facility (Cont'd)

(7) Reserved for Future Use (C)

(D)

(D)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(A) Entrance Facility (Cont'd)

(8) Reserved for Future Use (C)

(D)

(D)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(A) Entrance Facility (Cont'd)

(9) Reserved for Future Use (C)

(D)

(D)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges

4.7.2 Switched Transport (Cont'd)

(B) Direct-Trunked Transport

		Price Zone Type	Monthly Rates	
			Termination (Fixed)	Facility (Per Mile)
(1)	Voice Grade – Per Channel			
	- Charlottesville MSA	Flex	$65.00 (I)	$3.00 (I)
	- All Other	Cap	$47.25	$1.40

(C)

(2) DS1 – Per DS1	Price Zone Type		
Zone			
1 - Charlottesville	Flex	$135.00 (R)	$7.75 (R)
1 - Martinsville	Cap	115.90 (R)	6.00 (R)
2 - All	Cap	121.70 (R)	6.30 (R)
3 - Crozet	Flex	195.00 (I)	11.25 (I)
3 - Fort Union	Flex	195.00 (I)	11.25 (I)
3 - Palmyra	Flex	195.00 (I)	11.25 (I)
3 - Schuyler	Flex	195.00 (I)	11.25 (I)
3 - Scottsville	Flex	195.00 (I)	11.25 (I)
3 - Stanardsville	Flex	195.00 (I)	11.25 (I)
3 – All Other	Cap	131.30 (R)	6.80 (R)

(C)

(3) DS3 – Per DS3	Price Zone Type		
Zone			
1 - Charlottesville	Flex	$715.00	$152.00 (I)
1 - Martinsville	Cap	477.10 (R)	93.90 (R)
2 - All	Cap	495.70 (R)	103.50 (R)
3 - Crozet	Flex	825.00 (I)	180.00 (I)
3 - Fort Union	Flex	825.00 (I)	180.00 (I)
3 - Palmyra	Flex	825.00 (I)	180.00 (I)
3 - Schuyler	Flex	825.00 (I)	180.00 (I)
3 - Scottsville	Flex	825.00 (I)	180.00 (I)
3 - Stanardsville	Flex	825.00 (I)	180.00 (I)
3 – All Other	Cap	533.60 (R)	109.10 (R)

(C)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges

4.7.2 Switched Transport (Cont'd)

(B) Direct-Trunked Transport (Cont'd)

	Price Zone Type	Monthly Rates	
		Termination (Fixed)	Facility (Per Mile)
(4) OptiPoint 3			
(a)One Year Commitment			
Zone 1	All	$2,171.00 (R)	$169,00 (R)
Zone 2	All	2,270.00 (R)	181.00 (R)
Zone 3	All	2,368.00	194.00

(C)

(b)Three Year Commitment	Price Zone Type		
Zone 1			
Charlottesville	Flex	1,685.00 (R)	131.00 (R)
Martinsville	Cap	1,737,00 (R)	135.00 (R)
Zone 2	Cap	1,816.00 (R)	145.00 (R)
Zone 3			
Crozet	Flex	1,837.00 (R)	150.00 (R)
Fort Union	Flex	1,837.00 (R)	150.00 (R)
Palmyra	Flex	1,837.00 (R)	150.00 (R)
Schuyler	Flex	1,837.00 (R)	150.00 (R)
Scottsville	Flex	1,837.00 (R)	150.00 (R)
Stanardsville	Flex	1,837.00 (R)	150.00 (R)
All Other	Cap	1,894.00	155.00

(C)

(c) Five Year Commitment	Price Zone Type		
Zone 1			
Charlottesville	Flex	1,521.00 (R)	116.00 (R)
Martinsville	Cap	1,568,00 (R)	120.00 (R)
Zone 2	Cap	1,633.00	130.00 (R)
Zone 3			
Crozet	Flex	1,647.00 (R)	136.00 (R)
Fort Union	Flex	1,647.00 (R)	136.00 (R)
Palmyra	Flex	1,647.00 (R)	136.00 (R)
Schuyler	Flex	1,647.00 (R)	136.00 (R)
Scottsville	Flex	1,647.00 (R)	136.00 (R)
Stanardsville	Flex	1,647.00 (R)	136.00 (R)
All Other	Cap	1,698.00	140.00

(C)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(C) Tandem-Switched Transport

(1) Tandem Switched Transmission	Rates Per Minute	
	Termination (Fixed)	Facility (Per Mile)
Zone 1		
Originating **Non-Toll Free***	$0.000445	$0.000058
Terminating 3rd Party	0.000252	0.000030
Terminating End Office	0.000000	0.000000
Zone 2		
Originating **Non-Toll Free***	$0.000445	$0.000058
Terminating 3rd Party	0.000263	0.000031
Terminating End Office	0.000000	0.000000
Zone 3		
Originating **Non-Toll Free***	$0.000445	$0.000058
Terminating 3rd Party	0.000290	0.000038
Terminating End Office	0.000000	0.000000

(T)

(T)

(T)

(2) Tandem Switching	Rate Per Minute		
	Originating **Non-Toll Free ***	Terminating 3rd Party	Terminating End Office
Zone 1	$0.000879	$0.000879	$0.000000
Zone 2	0.000949	0.000949	0.000000
Zone 3	0.001085	0.001085	0.000000

(T)

(3) Common Transport Multiplexing	Rate Per Minute		
	Originating **Non-Toll Free ***	Terminating 3rd Party	Terminating End Office
Zone 1	$0.000254	$0.000254	$0.000000
Zone 2	0.000277	0.000277	0.000000
Zone 3	0.000296	0.000296	0.000000

(T)

(4) 8YY Joint Tandem Switched Transport Rate Per Minute	**Originating Toll Free ***
All Zones	**$0.001**

(N)
(N)

*** Effective July 1, 2021, pursuant to FCC 20-143, separate rate elements for Toll Free and Non-Toll Free Originating Transport services were established. The Toll Free originating rate element for combined transport services is displayed as 8YY Joint Tandem Switched Transport.**

(N)
(N)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges

4.7.2 Switched Transport (Cont'd)

(C) Tandem-Switched Transport (Cont'd)

(5) Dedicated Multiplexing DS3 to DS1	Monthly Rate
Zone 1	$479.60
Zone 2	495.70
Zone 3	511.30

(T)

(6) Dedicated Trunk Port	Price Zone Type	Monthly Rate
DS0		
Charlottesville MSA	Flex	$6.50
All Other	Cap	$5.23
DS1		
Charlottesville MSA	Flex	$155.00
All Other	Cap	116.69

(T)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Changes (Cont'd)

4.7.2 Switched Transport (Cont'd)

(D) Optional Features

(1) Provision of Other than Telephone Company Selected Traffic Routing (available with FGB, FGC, and FGD)

		Monthly Rate	Nonrecurring Charge	
(a)	Direct Trunking in lieu of Tandem Trunking	GAR	GAR	(C)
(b)	Tandem Trunking in lieu of Direct Trunking	GAR	GAR	(C)

(2) Customer Specification of Feature Group Directionality (Available with FGB, FGC, FGD)

(a)	One-Way Operation in Lieu of Two-Way Operation	GAR	GAR	(C) (C)
(b)	Two-Way Operation in Lieu of One-Way Operation	GAR	GAR	(C)

(D)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(D) Optional Features (Cont'd)

	Monthly Rate	Nonrecurring Charge	
(3) Customer Specification of Switched Transport Termination (Available with FGB with Type B Transmission Performance)			
- Four-Wire Termination in lieu of Two-Wire Termination	GAR	GAR	(C)

(4) Multiplexing

(a) DS1 to Voice Grade

Zone	Price Zone Rate	Monthly Rate	Nonrecurring Charge	
1 - Charlottesville	Flex	$285.00 (R)	$140.00	(C)
1 - Martinsville	Cap	240.60 (R)	140.00	(N)
2 - All	Cap	250.80 (R)	140.00	
3 - Crozet	Flex	405.00 (I)	140.00	
3 - Fort Union	Flex	405.00 (I)	140.00	
3 - Palmyra	Flex	405.00 (I)	140.00	
3 - Schuyler	Flex	405.00 (I)	140.00	
3 - Scottsville	Flex	405.00 (I)	140.00	
3 - Stanardsville	Flex	405.00 (I)	140.00	
3 – All Other	Cap	272.80 (R)	140.00	(N)

(b) DS3 to DS1

Zone				
1 - Charlottesville	Flex	$750.00	100.00	(C)
1 - Martinsville	Cap	479.60 (R)	100.00	(C)
2 - All	Cap	495.70 (R)	100.00	(N)
3 - Crozet	Flex	875.00 (I)	100.00	
3 - Fort Union	Flex	875.00 (I)	100.00	
3 - Palmyra	Flex	875.00 (I)	100.00	
3 - Schuyler	Flex	875.00 (I)	100.00	
3 - Scottsville	Flex	875.00 (I)	100.00	
3 - Stanardsville	Flex	875.00 (I)	100.00	
3 – All Other	Cap	511.30 (R)	100.00	(N)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(D) Optional Features (Cont'd)

(5) OptiPoint Configuration Node – Per Arrangement (M)

(a) OC3	Price Zone Rate	Monthly Rates		
		1 Year	*3 Year*	5 Year
Zone 1				
Charlottesville	Flex	$173.00 (R)	$150.00 (R)	$136.00(R)
Martinsville	Cap	173.00 (R)	138.00 (R)	125.00(R)
Zone 2	Cap	188.00 (R)	150.00 (R)	138.00(R)
Zone 3				
Crozet	Flex	219.00	180.00 (I)	155.00(I)
Fort Union	Flex	219.00	180.00 (I)	155.00(I)
Palmyra	Flex	219.00	180.00 (I)	155.00(I)
Schuyler	Flex	219.00	180.00 (I)	155.00(I)
Scottsville	Flex	219.00	180.00 (I)	155.00(I)
Stanardsville	Flex	219.00	180.00 (I)	155.00(I)
All Other	Cap	219.00	175.00	150.00

(C)
(C)
(N)
(M)

(M) This material previously appeared on Page 91.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(D) Optional Features (Cont'd)

(6) Reserved for Future Use (C)

(D)

(D)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.2 Switched Transport (Cont'd)

(D) Optional Features (Cont'd)

(9) OptiPoint-3 Service Upgrade

	Nonrecurring Charge
- per DS1, DS3 or STS1 Upgraded	$1,000.00

(10) OptiPoint Reconfiguration Charge

- per DS3 Equivalent	625.00

(11) OptiPoint Regeneration Charge

	Monthly Rates – Per Regeneration		
	1 Year	3 Year	5 Year
OC3	$1,750.00	$1,400.00	$1,200.00

(E) Network Blocking Charge (Applies to FGD)

	Rate Per Call Blocked
- Per Call**	GAR

(F) Installation Nonrecurring Charge *

- Per Line or Trunk	$6.00

4.7.3 Local Switching

	Rate Per Access Minute	
(A) LS1 Feature Groups A and B		
Originating – Non VoIP **& Non-Toll Free**	$0.010000	(C)
Originating – VoIP **& Toll Free**	$0.003709	(C)
Terminating – All Traffic	$0.000000	
(B) LS2 Feature Groups C and D		
Originating – Non VoIP **& Non-Toll Free**	$0.010000	(C)
Originating – VoIP **& Toll Free**	$0.003709	(C)
Terminating – All Traffic	$0.000000	

* This flat rated charge was calculated based upon a 50/50 split between originating and terminating. The FCC in their FCC 11-161 ICC Transformation Order in Section 51.907(d)(1) allowed Price Cap Carriers to use an equal split to divide the charge between originating and terminating elements. When the terminating portion of the rate is reduced and then combined with the originating portion of the rate, a single flat rate is generated for billing purposes.

** Applies to FGD.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.3 Local Switching (Cont'd)

(C) Dedicated Trunk Port *

	Monthly Rate
DS0 – Per Channel – Per Channel	
Charlottesville MSA	$3.25
All Other	2.62
DS1	
Charlottesville MSA	$77.50
All Other	58.35

(D) Common/Shared Trunk Port

	Rate Per Access Minute	
Originating –**Non-Toll Free**	$0.000537	(C)
Originating –**Toll Free**	$0.000537	(C)
Terminating – All Traffic	$0.000000	

* The End Office Dedicated Trunk Port rate was calculated based upon a 50/50 split between originating and terminating traffic using this flat-rated port. The FCC in their FCC 11-161 ICC Transformation order in section 51.907(d)(1) allowed Price Cap Carriers to use an equal split to divide the charge between originating and terminating elements. When the terminating portion of the rate is reduced and then combined with the originating portion of the rate, a single flat rate is generated for billing purposes. The DS0 Originating portion of the charge for the Charlottesville MSA is $3.25 and All Other is $2.62 and the DS1 Originating portion of the charge for the Charlottesville MSA is $77.50 and All other is $58.35. (T)

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.4 Toll Free Code (TFC) Access Service Data Base Query Charge

A TFC Access Service Database Query charge will apply for each TFC call query received at the Telephone Company's TFC database. Per Query charges are accumulated over a billing period and billed to the Customer on a monthly basis.

TFC Data Base Query Charge	Optional Feature*
Rate Per Query	Rate Per Query
$0.004248 (R)	**$0.00000 (R)**

* When a combination of one or more TFC Access Service Database Optional Features is used, only one charge will apply.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.5 Interim 500 Access Service

a. Assembly of Route Pattern – 1 + Dialing

- Per end office switch (including end office collocated with access tandem)

	Nonrecurring Charge
	$32.70

b. 500 NXX Code Activation or Deactivation - 1 + Dialing

- Per NXX code added or deleted per end office

	Nonrecurring Charge
	$10.90

c. Assembly of Route Pattern - 0 + Dialing

- Per end office switch (including end office collocated with access tandem)

	Nonrecurring Charge
	$32.70

d. 500 NXX Code Activation or Deactivation - 0 + Dialing

- Per NXX code added or deleted per end office

	Nonrecurring Charge
	$10.90

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.6 Optical Service Charge

- per node

	Nonrecurring Charge
- OC3	$7,500.00
- OC12	8,500.00
- OC48	12,500.00

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.7 VOIP Minute of Use Charges **[1]** (T)

(A) Tandem-Switched Transport

(1) Tandem Switched Transmission	Rates Per Minute		
	Termination (Fixed)	Facility (Per Mile)	
Zone 1			
Originating **Non-Toll Free***	$0.000252	$0.000030	(T)
Terminating 3rd Party	0.000252	0.000030	
Terminating End Office	0.000000	0.000000	
Zone 2			
Originating **Non-Toll Free***	$0.000263	$0.000031	(T)
Terminating 3rd Party	0.000263	0.000031	
Terminating End Office	0.000000	0.000000	
Zone 3			
Originating **Non-Toll Free***	$0.000290	$0.000038	(T)
Terminating 3rd Party	0.000290	0.000038	
Terminating End Office	0.000000	0.000000	

(2) Tandem Switching	Rate Per Minute			
	Originating **Non-Toll Free***	Terminating 3rd Party	Terminating End Office	(T)
Zone 1	$0.000879	$0.000879	$0.000000	
Zone 2	0.000949	0.000949	0.000000	
Zone 3	0.001085	0.001085	0.000000	

(3) Common Transport Multiplexing	Rate Per Minute			
	Originating **Non-Toll Free***	Terminating 3rd Party	Terminating End Office	(T)
Zone 1	$0.000254	$0.000254	$0.000000	
Zone 2	0.000277	0.000277	0.000000	
Zone 3	0.000296	0.000296	0.000000	

(4) 8YY Joint Tandem Switched Transport Rate Per Minute	**Originating Toll Free ***	(N)
All Zones	**$0.001**	(N)

(M)

(M)

(N)

(N)

*** Effective July 1, 2021, pursuant to FCC 20-143, separate rate elements for Toll Free and Non-Toll Free Originating Transport services were established. The Toll Free originating rate element for combined transport services is displayed as 8YY Joint Tandem Switched Transport.**

[1] These rates mirror the Interstate FCC #9 tariff. For clarity, they are added to this intrastate tariff.

4. SWITCHED ACCESS SERVICE (Cont'd)

4.7 Rates and Charges (Cont'd)

4.7.7 VOIP Minute of Use Charges **[1]** (T)

(B) Local Switching (LS1 and LS2) (T)

	Rate Per Access Minute
Originating – Non VoIP **& Non-Toll Free**	$0.010000
Originating – VoIP **& Toll Free**	$0.003709
Terminating – All Traffic	$0.000000

(C) Common/Shared Trunk Port

	Rate Per Access Minute
Originating –**Non-Toll Free**	$0.000537
Originating –**Toll Free**	$0.000537
Terminating – All Traffic	$0.000000

(T)

[1] These rates mirror the Interstate FCC #9 tariff. For clarity, they are added to this intrastate tariff.

ISSUED: July 16, 2002

EFFECTIVE: August 15, 2002

5. SPECIAL ACCESS SERVICE

5.1 General

Special Access Service provides a transmission path to connect Customer designated premises, 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. This type of Access Service is used, for example, by Customers for the provision of private line service.

The provision of Special Access in all situations is dependent upon the availability of Telephone Company plant and equipment.

5.1.1 Channel Types

There are three types of channels used to provide Special Access Service. These channels can be either analog or digital. Analog channels are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate. The specific types of channels (e.g., Voice Grade, Digital Data) provided under Special Access are described in Section 5.2. (C) (C)

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

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

The Customer can order a basic channel and select from a list of available transmission parameters, protocol combinations, and optional features to design a channel which meets the Customer's specific communications needs. 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.

* Telephone Company Centrex CO-like switches are considered to be Customer premises for purposes of this tariff.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.1 General (Cont'd)

5.1.2 Rate Categories

There are three basic rate elements which apply to Special Access Service:

- Channel Termination (described in 5.1.2(A) following)
- Channel Mileage (described in 5.1.2(B) following)
- Optional Features and Functions (described in 5.1.2(C) following)

(A) Channel Termination

The Channel Termination rate category provides for the communications path between a Customer designated premises and the serving wire center or WATS Serving Office of that premises. 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 a part of this rate category. One Channel Termination charge applies per Customer designated premises at which the channel is terminated. Channel Termination charges for DS3 High Capacity Service may vary based on distance, as set forth in 5.5.13(A) following. Channel Termination rates for each type of channel are set forth in Section 5.5. Special Access Service used in conjunction with Switched Access is provided as set forth in Section 4.1.1 preceding. (T)

(B) Channel Mileage

The Channel Mileage rate category provides for the end office equipment and the transmission channel between the serving wire centers associated with two Customer designated premises, between a serving wire center associated with a Customer designated premises and a Telephone Company hub, between two Telephone Company hubs, or between a WATS Serving Office and a Customer serving wire center when the two are not collocated. Channel Mileage rates are made up of the Channel Mileage Facility rate and the Channel Mileage Termination rate. Channel Mileage charges are set forth in 5.5 following. (T) (T) (T) (T)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.1 General (Cont'd)

5.1.2 Rate Categories (Cont'd)

(B) Channel Mileage (Cont'd)

(1) Channel Mileage Facility (Per Mile) (T)

The Channel Mileage Facility rate recovers the cost for the transmission path that extends between the Telephone Company serving wire centers and/or hub(s) and includes primarily outside plant used to provide the facility.

(2) Channel Mileage Termination (Fixed) (T)

The Channel Mileage Termination rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at serving wire centers and hubs). The Telephone Company applies a 50 percent billing percentage to the Channel Mileage Termination rate on a jointly owned circuit, and applies 100 percent on wholly owned circuits. When the Channel Mileage Facility is zero (i.e., collocated serving wire centers), neither the Channel Mileage Facility rate nor the Channel Mileage Termination rate will apply.

(C) Optional Features and Functions

Optional Features and Functions may be added to a service to improve its quality or utility to meet the Customer's specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics that may be obtained. These characteristics may be obtained by using various combinations of equipment. Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Conditioning
- Automatic Protection Switching
- Bridging

The list of Optional Features and Functions is set forth in Section 5.5.1.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.1 General (Cont'd)

5.1.3 Protocol Combinations

The protocol (i.e., interface) defines the technical characteristics associated with the type of signaling and type of facilities presented for connection to the Access Service at the Customer designated premises. The protocol specified for the Customer premises may be asymmetrical or symmetrical. However, only certain combinations are technically possible. Therefore, for purposes of this tariff, protocol is being described in terms of acceptable combinations

When ordering Special Access Service, the Customer must specify the protocol combination that is desired for the service ordered. Only certain protocol combinations are considered to be standard and included in the charge for Channel Termination. These protocol combinations are set forth for each channel type in Section 5.2. When the Customer requests a protocol combination which is not standard, an additional charge will be assessed on an individual case basis. Not all protocol combinations are available at all Telephone Company locations.

5.1.4 Service Configurations

There are two types of service configurations over which Special Access Service is provided: two-point service and multipoint service.

(A) Two-Point Service

A two-point service connects two Customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed. All types of Special Access Service may be provided as two-point service.

(B) Multipoint Service

A multipoint service connects three or more Customer designated premises. Only certain types of Special Access Service may be provided as multipoint service. These are so designated in the descriptions for the appropriate channel. However, the provision of all Special Access Service is subject to local availability.

When ordering multipoint service, the Customer may specify the desired bridging hub. National Exchange Carrier Association Tariff F.C.C. No. 4 identifies serving wire centers, hub locations and the type of bridging functions available.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.1 General (Cont'd)

5.1.5 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 are as set forth in Section 11.

5.1.6 Circuit Design Layout

At the request of the Customer, the Telephone Company will provide a Design Layout Report (DLR) setting forth the make-up of the facilities and services provided under Special Access to aid the Customer in designing its overall service. The information in the DLR will be provided to the Customer at no charge and updated whenever facilities provided to the Customer are materially changed.

5.1.7 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:

For Voice Grade Services (VG): loss, 3-tone slope, DC continuity and operational signaling, where technically appropriate. Where a four-wire voice transmission interface provides two-wire voice transmission, (i.e., there is a four-wire to two-wire conversion), balance (equal level echo path loss) will also be tested. Additionally, C-notched noise and C-message noise tests will be provided where technically appropriate, as well as frequency response, harmonic distortion, phase jitter, impulse noise and delay distortion for all analog facilities.

Test results will be made available to the Customer upon request.

All other Special Access Services will be tested to the performance parameters specified for the individual services.

5.1.8 Ordering Options and Conditions

The facilities provided under Special Access can be ordered by using a Facilities Access Order as specified in Section 9. Minimum period and cancellation charges associated with Special Access Service are also included in Section 9.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.1 General (Cont'd)

5.1.9 Alternate Use

Alternate use occurs when a Customer uses a service for different types of transmission at different times. The Customer may transfer from one type of operation to another at will. A Customer may use transmission services in any privately beneficial way but, where technical or engineering changes are required to effectuate an alternate use, charges set forth in Section 8 of this tariff may be applicable.

Alternate uses will be allowed provided that such use meets the technical protection parameters as set forth in Section 5.2 following.

5.2 Technical Service Descriptions for Special Access Service

This section includes the technical service descriptions for each type of Analog and Digital service provided, typical applications for which each type of service can be used, the Optional Features and Functions available with specific services, transmission performances and the standard protocol combinations with which service can be provided.

When ordering Special Access Service, the Customer must select the type of channel desired from the three categories of Special Access Service. These categories are:

- Analog:

Voice Grade [1]	TR-NWT-000335	(C)

- Digital:

Digital Data [1]	TR-NWT-000341	(C)
High Capacity	GR-54 and GR-342	

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in 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 Reference Publications for each category of service:

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

Voice Grade [1]	TR-NPL-000335/PUB 62501 and Associated Addendum PUB 41004, Table 4 TR-NPL-000334	(C)
Digital Data [1]	PUB 62507 and Associated Addendum PUB 62310	(C)
High Capacity-DS1	GR342, Issue 1 PUB 62411 and Associated Addendum	
High Capacity-DS3	UB 62508	
Clear Channel Capability	GR54, Issue 1	

5.2.1 Analog Services

(A) Reserved For Future Use

(B) **Voice Grade Service** [1] (C)

(1) Description

A Voice Grade (VG) 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.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(2) Transmission Specifications

- Attenuation Distortion
- C-Message Noise
- Echo Control
- Envelope Delay Distortion
- Frequency Shift
- Impulse Noise
- Intermodulation Distortion
- Phase Hits, Gain Hits, and Dropouts
- Phase Jitter
- Signal-to-C Message Noise
- Signal-to-C Notch Noise

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are set forth in Technical Reference Publication TR-NWT-000335. The technical specifications for dropouts, phase hits, and gain hits are set forth in Technical Reference Publication MDP-326-584.

Increased performance specifications can be attained with the provision of the appropriate Optional Features and Functions under 5.5.1 following.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(3) Standard Protocol Combinations

A Voice Grade channel is available with the standard protocol combinations set forth below. Other protocols are available at rates determined on an individual case basis.

2N02	-	2N02	4DS9*	-	2LO3	4DS9*	-	2GS2
4N02	-	2N02	4LS2-X	-	2LO2	4G02-X	-	2GS2
4AHS-B**	-	2N02	2L02	-	2LS2	4LS2	-	2LA2
4AH6-C**	-	2N02	4DS0*	-	2LS2	4LS2	-	2LB2
4AH6-D**	-	2N02	4DS6*	-	2LS2	4LS2-M	-	2LC2
4DS0*	-	2N02	4L02-X	-	2LS2	4LS2	-	2L03
4DS6*	-	2N02	2GS2	-	2GO2	4SF2	-	2LA2
4DS9*	-	2N02	4GS2	-	2GO2	4SF2	-	2LB2
4N02	-	4N02	4AH5-B**	-	2GO2	4SF2	-	2LC2
4AH5-B**	-	4N02	4AH6-C**	-	2GO2	4SF2	-	2L03
4AH6-C**	-	4N02	4AH6-D**	-	2GO2	4AH5-B**	-	2LA2
4AH6-D**	-	4N02	4DS0*	-	2GO2	4AH5-B**	-	2LB2
4DS0*	-	4N02	4DS6*	-	2GO2	4AH5-B**	-	2LC2
4DS6*	-	4N02	4DS9*	-	2GO2	4AH5-B**	-	2L03
4DS9*	-	4N02	4GS2-X	-	2GO2	4DS0*	-	2LA2
4N02	-	2L02	2G02	-	2GS2	4DS0*	-	2LB2
4LS2	-	2L02	4G02	-	2GS2	4DS0*	-	2LC2
4AH5-B**	-	2L02	4AH5-B**	-	2GS2	4DS0*	-	2L03
4AH6-C**	-	2L02	4AH6-C**	-	2GS2	4DS6*	-	2LA2
4AH6-D**	-	2L02	4AH6-D**	-	2GS2	4DS6*	-	2LB2
4DS0*	-	2L02	4DS0*	-	2GS2	4DS6	-	2LC2
4DS6*	-	2L03	4DS6*	-	2GS2	4DS6	-	2L03

* See 5.3.3 following for explanation.

** Compatible only with a multiplex 4-Wire High Capacity analog facility interface option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd)

(3) Standard Protocol Combinations (Cont'd)

4DS9*	-	2LA2	4L02	-	2LS3	4DS6*	-	2LS2-M
4DS9*	-	2LB2	4L02	-	2LS3-M	4DS6*	-	2LS3
4DS9*	-	2LC2	4SF2	-	2LS2	4DS6*	-	2LS3-M
4DS9*	-	2L03	4SF2	-	2LS2-M	4DS9*	-	2LS2
4GS2	-	2G03	4SF2	-	2LS3	4DS9*	-	2LS2-M
4SF2	-	2G03	4SF2	-	2LS3-M	4DS9*	-	2LS3
4AH6-C**	-	2LA2	4AH5-B**	-	2LS2	4DS9*	-	2LS3-M
4AH6-C**	-	2LB2	4AH5-B**	-	2LS2-M	4L02	-	4LS2
4AH6-C**	-	2LC2	4AH5-B**	-	2LS3	4SF2	-	4LS2
4AH6-C**	-	2L03	4AH5-B**	-	2LS3-M	4DS0*	-	4LS2
4AH6-D**	-	2LA2	4AH6-C**	-	2LS2	4AH5-B**	-	4LS2
4AH6-D**	-	2LB2	4AH6-C**	-	2LS2-M	4AH6-C**	-	4LS2
4AH6-D**	-	2LC2	4AH6-C**	-	2LS3	4AH6-D**	-	4LS2
4AH6-D**	-	2L03	4AH6-C**	-	2LS3-M	4DS6*	-	4LS2
4AH5-B**	-	2G03	4AH6-D**	-	2LS2	4DS9*	-	4LS2
4AH6-C**	-	2G03	4AH6-D**	-	2LS2-M	4LR2	-	2LR2
4AH6-D**	-	2G03	4AH6-D**	-	2LS3	4SF2	-	2LR2
4DS0*	-	2G03	4AH6-D**	-	2LS3-M	4DS0*	-	2LR2
4DS6*	-	2G03	4DS0*	-	2LS2	4DS6*	-	2LR2
4DS9*	-	2G03	4DS0*	-	2LS2-M	4DS9*	-	2LR2
4GS2-X	-	2G03	4DS0*	-	2LS3	4AH5-B**	-	2LR2
4L02	-	2LS2	4DS0*	-	2LS3-M			
4L02	-	2LS2-M	4DS6*	-	2LS2			

* See 5.3.3 following for explanation.

** Compatible only with a multiplex 4-Wire High Capacity analog facility interface option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data.

[1] Effective November 1, 2021 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd)

(3) Standard Protocol Combinations (Cont'd)

4AH6-C**	-	2LR2	4AH5-B**	-	2AC2	4DS9*	-	2GS3-C
4AH6-D**	-	2LR2	4AH5-B**	-	2AC2-R	4DS9*	-	4GS2-C
4LR2	-	4LR2	4AH5-B**	-	4AC2	4DS9*	-	4GS2
4SF2	-	4LR2	4AH5-B**	-	4AC2-5	4AH5-B**	-	2GS3-C
4DS0*	-	4LR2	4AH6-C**	-	2AC2	4AH5-B**	-	4GS2-C
4DS6*	-	4LR2	4AH6-C**	-	2AC2-5	4AH5-B**	-	4GS2
4DS9*	-	4LR2	4AH6-C**	-	4AC2	4AH6-C**	-	2GS3-C
4AH5-B**	-	4LR2	4AH6-C**	-	4AC2-5	4AH6-C**	-	4GS2-C
4AH6-C**	-	4LR2	4AH6-D**	-	2AC2	4AH6-C**	-	4GS2
4AH6-D**	-	4LR2	4AH6-D**	-	2AC2-5	4AH6-D**	-	2GS2-C
4AB2	-	4AC2	4AH6-D**	-	4AC2	4AH6-D**	-	4GS2-C
4AB2	-	4AC2-R	4AH6-D**	-	4AC2-5	4AH6-D**	-	4GS2
4AB2	-	2AC2	4DS0*	-	4SF2-L0	4SF2	-	2RV2-T
4AB2	-	2AC2-R	4DS0*	-	4SF2-LS	4SF2	-	2RV3-T
4SF2	-	4AC2	4DS6*	-	4SF2-L0	4DS0*	-	25V2-T
4SF2	-	4AC2-R	4DS6*	-	4SF2-LS	4DS0*	-	2RV3-T
4SF2	-	2AC2	4DS9*	-	4SF2-L0	4DS6*	-	2RV2-T
4SF2	-	2AC2-R	4DS9*	-	4SF2-LS	4DS6*	-	2RV3-T
4DS0*	-	2AC2	AG02	-	2GS3-C	4DS9*	-	2RV2-T
4DS0*	-	2AC2-R	4G02	-	4GS2-C	4DS9*	-	2RV3-T
4DS0*	-	4AC2	4G02	-	4GS2	4AH5-B**	-	2RV2-T
4DS0*	-	4AC2-R	4SF2	-	2GS3-C	4AH5-B**	-	2RV3-T
4DS6*	-	2AC2	4SF2	-	4GS2-C	4AH6-C**	-	2RV2-T
4DS6*	-	2AC2-R	4SF2	-	4GS2	4AH6-C**	-	2RV3-T
4DS6*	-	4AC2	4DS0*	-	2GS3-C	4AH6-D**	-	2RV2-T
4DS6*	-	4AC2-R	4DS0*	-	4GS2-C	6EA2-E	-	2RV2-T
4DS9*	-	2AC2	4DS0*	-	4GS2	6EA2-E	-	2RV3-T
4DS9*	-	2AC2-R	4DS6*	-	2GS3-C	6EA2-M	-	2RV2-T
4DS9*	-	4AC2	4DS6*	-	4GS2-C	6EA2-M	-	2RV3-T
4DS9*	-	4AC2-R	4DS6*	-	4GS2			

* See 5.3.3 following for explanation.

** Compatible only with a multiplex 4-Wire High Capacity analog facility interface option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data.

[1] Effective November 1, 2021 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(3) Standard Protocol Combinations (Cont'd)

8EB2-E	-	2RV2-T	8EB2-M	-	4EA2-E	4DS0*	-	6EA2-E
8EB2-E	-	2RV3-T	8EB2-M	-	6EB2-M	4DS0*	-	8EB2-M
8EB2-M	-	2RV2-T	8EB2-M	-	6EB2-E	4DS0*	-	8EB2-E
8EB2-M	-	2RV3-T	8EB2-M	-	6EA2-M	4DS0*	-	2CT3
6EA2-E	-	4EA2-M	8EB2-M	-	6EA2-E	4DS0*	-	4CT2
6EA2-E	-	4EA2-E	8EB2-M	-	8EB2-M	4DS6*	-	4EA2-M
6EA2-E	-	6EB2-M	8EB2-M	-	8EB2-E	4DS6*	-	4EA2-E
6EA2-E	-	6EB2-E	8EB2-M	-	8EB2-E	4DS6*	-	6EB2-M
6EA2-E	-	6EA2-M	8EB2-M	-	2CT3	4DS6*	-	6EB2-E
6EA2-E	-	6EA2-E	8EB2-M	-	4CT2	4DS6*	-	6EA2-M
6EA2-E	-	8EB2-M	8EC2	-	4EA2-M	4DS6*	-	6EA2-E
6EA2-E	-	8EB2-E	8EC2	-	4EA2-E	4DS6*	-	8EB2-M
6EA2-E	-	2CT3	8EC2	-	6EB2-M	4DS6*	-	8EB2-E
6EA2-E	-	4CT2	8EC2	-	6EB2-E	4DS6*	-	2CT3
6EA2-M	-	4EA2-M	8EC2	-	6EA2-M	4DS6*	-	4CT2
6EA2-M	-	4EA2-E	8EC2	-	6EA2-E	4DS9*	-	4EA2-M
6EA2-M	-	6EB2-M	8EC2	-	8EB2-M	4DS9*	-	4EA2-E
6EA2-M	-	6EB2-E	8EC2	-	8EB2-E	4DS9*	-	6EB2-M
6EA2-M	-	6EA2-M	8EC2	-	CT3	4DS9*	-	6EB2-E
6EA2-M	-	6EA2-E	8EC2	-	4CT2	4DS9*	-	6EA2-M
6EA2-M	-	8EB2-M	4SF2	-	4EA2-M	4DS9*	-	6EA2-E
6EA2-M	-	8EB2-E	4SF2	-	4EA2-E	4DS9*	-	8EB2-M
6EA2-M	-	2CT3	4SF2	-	6EB2-M	4DS9*	-	8EB2-E
6EA2-M	-	4CT2	4SF2	-	6EB2-E	4DS9*	-	2CT3
8EB2-E	-	4EA2-M	4SF2	-	6EA2-M	4DS9*	-	4CT2
8EB2-E	-	4EA2-E	4SF2	-	6EA2-E	4AH5-B**	-	4EA2-M
8EB2-E	-	6EB2-M	4SF2	-	8EB2-M	4AH5-B**	-	4EA2-E
8EB2-E	-	6EB2-E	4SF2	-	8EB2-E	4AH5-B**	-	6EB2-M
8EB2-E	-	6EA2-M	4SF2	-	2CT3	4AH5-B**	-	6EB2-E
8EB2-E	-	6EA2-E	4SF2	-	4CT2	4AH5-B**	-	6EA2-M
8EB2-E	-	8EB2-M	4DS0*	-	4EA2-M	4AH5-B**	-	6EA2-E
8EB2-E	-	8EB2-E	4DS0*	-	4EA2-E	4AH5-B**	-	8EB2-M
8EB2-E	-	2CT3	4DS0*	-	6EB2-M	4AH5-B**	-	8EB2-E
8EB2-E	-	4CT2	4DS0*	-	6EB2-E	4AH5-B**	-	2CT3
8EB2-M	-	4EA2-M	4DS0*	-	6EA2-M			

* See 5.3.3 following for explanation.

** Compatible only with a multiplex 4-Wire High Capacity analog facility interface option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(3) Standard Protocol Combinations (Cont'd)

4AH6-C**	-	2DE2	4G02	-	2GS2-M	4DS9*	-	8EC2
4AH6-D**	-	4DE2	4G02-X	-	2GS2-M	4AH5-B**	-	8EC2
4AH6-D**	-	2DE2	4G02-X	-	2GS2-M	4AH6-C**	-	8EC2
4DA2	-	4DA2	4SF2	-	2GS2	4AH6-D**	-	8EC2
4DA2	-	4DA2-S	4SF2	-	2GS3-M	6EA2-E	-	4DX2
6DA2	-	4DA2	4SF2	-	2GS2-M	6EA2-M	-	4DX2
6DA2	-	4DA2-S	4DS0*	-	2GS3-M	8EB2-E	-	4DX2
4DA2-S	-	4DA2	4DS0*	-	2GS2-M	8EB2-M	-	4DX2
4DA2-S	-	4DA2-S	4DS6*	-	2GS2-M	4SF2	-	4DX2
6DA2-S	-	4DA2	4DS6*	-	2GS3-M	4DS0*	-	4DX2
6DA2-S	-	4DA2-S	4DS9*	-	2GS2-M	4DS6*	-	4DX2
4DB2	-	4DA2	4DS9*	-	2GS2-M	4DS9*	-	4DX2
4DB2	-	4DA2-S	4AH5-B**	-	2GS2-M	4AH5-B**	-	4DX2
4DA2	-	6DA2	4AH5-B**	-	2GS2-M	4AH6-C**	-	4DX2
4DA2	-	6DA2-S	4AH6-C**	-	2GS2-M	4AH6-D**	-	4DX2
6DA2	-	6DA2	4AH6-D**	-	2GS3-M	4DS0*	-	4SF-EA
6DA2	-	6DA2-S	4G02-X	-	2GS2	4DS6*	-	4SF-EA
4DA2-S	-	6DA2	4G02-X	-	4GS2	4DS9*	-	4SF-EA
4DA2-S	-	6DA2-S	4G02-X	-	2GS3-C	2TF2	-	2TF2
6DA2-S	-	6DA2	4G02-X	-	4GS2-C	4DS0*	-	2TF2
6DA2-S	-	6DA2-S	4L02-X	-	2LS2	4DS6*	-	2TF2
4DS0*	-	4N02-S	4L02-X	-	4LS2	4DS9*	-	2TF2
4DS6*	-	4N02-S	4L02-X	-	2LS2-M	4AH5-B**	-	2TF2
4DS9*	-	4N02-S	4L02-X	-	2LS3-M	4AH6-C**	-	2TF2
4AH5-B**	-	4N02-S	6EA2-E	-	8EC2	4AH6-D**	-	2TF2
4AH6-C**	-	4N02-S	6EA2-M	-	8EC2	4TF2	-	4TF2
4AH6-D**	-	4N02-S	8EB2-E	-	8EC2	4DS0*	-	4TF2
4LS2-X	-	2LA2	8EB2-M	-	8EC2	4DS6*	-	4TF2
4LS2-X	-	2LB2	8EC2	-	8EC2	4DS9*	-	4TF2
4LS2-X	-	2LC2	4SF2	-	8EC2	4AH5-B**	-	4TF2
4LS2-X	-	2L03	4DS0*	-	8EC2	4AH6-C**	-	4TF2
4G02	-	2GS3-M	4DS6*	-	8EC2			

* See 5.3.3 following for explanation.

** Compatible only with a multiplex 4-Wire High Capacity analog facility interface option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data

[1] Effective November 1, 2021 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(3) Standard Protocol Combinations (Cont'd)

4AH6-C**	-	2DE2	4G02	-	2GS2-M	4DS9*	-	8EC2
4AH6-D**	-	4DE2	4G02-X	-	2GS2-M	4AH5-B**	-	8EC2
4AH6-D**	-	2DE2	4G02-X	-	2GS2-M	4AH6-C**	-	8EC2
4DA2	-	4DA2	4SF2	-	2GS2	4AH6-D**	-	8EC2
4DA2	-	4DA2-S	4SF2	-	2GS3-M	6EA2-E	-	4DX2
6DA2	-	4DA2	4SF2	-	2GS2-M	6EA2-M	-	4DX2
6DA2	-	4DA2-S	4DS0*	-	2GS3-M	8EB2-E	-	4DX2
4DA2-S	-	4DA2	4DS0*	-	2GS2-M	8EB2-M	-	4DX2
4DA2-S	-	4DA2-S	4DS6*	-	2GS2-M	4SF2	-	4DX2
6DA2-S	-	4DA2	4DS6*	-	2GS3-M	4DS0*	-	4DX2
6DA2-S	-	4DA2-S	4DS9*	-	2GS2-M	4DS6*	-	4DX2
4DB2	-	4DA2	4DS9*	-	2GS2-M	4DS9*	-	4DX2
4DB2	-	4DA2-S	4AH5-B**	-	2GS2-M	4AH5-B**	-	4DX2
4DA2	-	6DA2	4AH5-B**	-	2GS2-M	4AH6-C**	-	4DX2
4DA2	-	6DA2-S	4AH6-C**	-	2GS2-M	4AH6-D**	-	4DX2
6DA2	-	6DA2	4AH6-D**	-	2GS3-M	4DS0*	-	4SF-EA
6DA2	-	6DA2-S	4G02-X	-	2GS2	4DS6*	-	4SF-EA
4DA2-S	-	6DA2	4G02-X	-	4GS2	4DS9*	-	4SF-EA
4DA2-S	-	6DA2-S	4G02-X	-	2GS3-C	2TF2	-	2TF2
6DA2-S	-	6DA2	4G02-X	-	4GS2-C	4DS0*	-	2TF2
6DA2-S	-	6DA2-S	4L02-X	-	2LS2	4DS6*	-	2TF2
4DS0*	-	4N02-S	4L02-X	-	4LS2	4DS9*	-	2TF2
4DS6*	-	4N02-S	4L02-X	-	2LS2-M	4AH5-B**	-	2TF2
4DS9*	-	4N02-S	4L02-X	-	2LS3-M	4AH6-C**	-	2TF2
4AH5-B**	-	4N02-S	6EA2-E	-	8EC2	4AH6-D**	-	2TF2
4AH6-C**	-	4N02-S	6EA2-M	-	8EC2	4TF2	-	4TF2
4AH6-D**	-	4N02-S	8EB2-E	-	8EC2	4DS0*	-	4TF2
4LS2-X	-	2LA2	8EB2-M	-	8EC2	4DS6*	-	4TF2
4LS2-X	-	2LB2	8EC2	-	8EC2	4DS9*	-	4TF2
4LS2-X	-	2LC2	4SF2	-	8EC2	4AH5-B**	-	4TF2
4LS2-X	-	2L03	4DS0*	-	8EC2	4AH6-C**	-	4TF2
4G02	-	2GS3-M	4DS6*	-	8EC2			

* See 5.3.3 following for explanation.

** Compatible only with a multiplex 4-Wire High Capacity analog facility interface option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(3) Standard Protocol Combinations (Cont'd)

4AH6-D**	-	4TF2	6EX2-A	-	4LS2	6EX2-A	-	2GS2-M
			6EX2-A	-	2LR2	4DX2	-	8EC2
			6EX2-A	-	2GS3-C	4DX2-X	-	8EC2
			6EX2-A	-	4GS2-C	4DX2	-	2LS2
			6EX2-A	-	4GS2	6EA2-E	-	2LS2
			4RV2-O	-	2RV2-T	6EA2-M	-	2LS2
			4RV2-O	-	2RV3-T	8EB2-E	-	2LS2
			4DX2	-	2RV2-T	8EB2-M	-	2LS2
			4DX2	-	2RV3-T	4DX2	-	4DX2
			4DX2-X	-	2RV2-T	4DX2-X	-	4DX2
			4DX2-X	-	2RV3-T	2N02	-	4N02
			4DX2	-	4EA2-M	2LS2	-	2LA2
			4DX2	-	4EA2-E	2LS2	-	2LB2
			4DX2	-	6EB2-M	2LS2	-	2LC2
			4DX2	-	6EB2-E	2LS2	-	2LO3
			4DX2	-	6EA2-M	2LR2	-	2LR2
			4DX2	-	6EA2-E	2LR2	-	4LR2
			4DX2	-	83B2-M	2AC2	-	2AC2
			4DX2	-	83B2-E	2AC2	-	4AC2
6EX2-B	-	2L02	4DX2	-	2CT3	4AC2	-	2AC2
6EX2-A	-	2LS2	4DX2	-	4CT2	4AC2	-	4AC2
2L03	-	2LS2	4DX2-X	-	4EA2-M	2GS2	-	2G03
6EX2-B	-	2G02	4DX2-X	-	4EA2-E	2LS2	-	2L02
6EX2-A	-	2GS2	4DX2-X	-	6EB2-M	2LS2	-	4L02
6EX2-B	-	2LA2	4DX2-X	-	6EB2-E	4LS2	-	4L02
6EX2-B	-	2LB2	4DX2-X	-	6EA2-M	4EA2-E	-	4EA2-E
6EX2-B	-	2LC2	4DX2-X	-	6EA2-E	4EA2-E	-	4EA2-M
6EX2-B	-	2L03	4DX2-X	-	8EB2-M	4EA2-E	-	6EA2-E
6EX2-B	-	2G03	4DX2-X	-	8EB2-E	4EA2-E	-	6EA2-M
6EX2-A	-	2LS2-M	4DX2-X	-	2CT3	4EA2-E	-	6EA2-E
6EX2-A	-	2LS3	4DX2-X	-	4CT2	4EA2-E	-	6EA2-M
6EX2-A	-	2LS3-M	6EX2-A	-	2GS3-M	4EA2-E	-	8EB2-E

* See 5.3.3 following for explanation.

** Compatible only with a multiplex 4-Wire High Capacity analog facility interface option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(3) Standard Protocol Combinations (Cont'd)

4EA2-E	-	8EB2-M	2CT3	-	6EA2-M	4DA2	-	2N02
4EA2-E	-	2CT3	2CT3	-	6EB2-M	4DA2	-	4N02
4EA2-E	-	4CT2	2CT3	-	6EB2-M	4DA2	-	4N02-S
4EA2-M	-	4EA2-E	2CT3	-	8EB2-E	6DA2	-	2DA2
4EA2-M	-	4EA2-M	2CT3	-	8EB2-M	6DA2	-	4N02
4EA2-M	-	6EA2-E	2CT3	-	2CT3	6DA2	-	2N02
4EA2-M	-	6EA2-M	2CT3	-	4CT2	6DA2	-	4N02-S
4EA2-M	-	6EB2-E	4CT2	-	4EA2-E	4DA2-S	-	2DA2
4EA2-M	-	6EB2-M	4CT2	-	4EA2-M	4DA2-S	-	2N02
4EA2-M	-	8EB2-E	4CT2	-	6EA2-E	4DA2-S	-	4N02
4EA2-M	-	8EB2-M	4CT2	-	6EA2-M	4DA2-S	-	4N02-S
4EA2-M	-	2CT3	4CT2	-	6EB2-E	6DA2-S	-	2DA2
4EA2-M	-	4CT2	4CT2	-	6EB2-M	6DA2-S	-	2N02
6EB2-M	-	2CT3	4CT2	-	8EB2-E	6DA2-S	-	4N02
6EB2-M	-	4CT3	4CT2	-	8EB2-M	6DA2-S	-	4N02-S
6EB2-E	-	2CT3	4CT2	-	2CT3	2N02	-	4DA2
6EB2-E	-	4CTS	4CT2	-	4CT2	2N02	-	6DA2
2GS2	-	4G02	2DA2	-	2DA2	2N02	-	2N02
2GS3-C	-	2G02	2DA2	-	4DA2	2N02	-	4N02
2GS3-C	-	4G02	2DA2	-	6DA2	2N02	-	4DA2-S
4GS2	-	4G02	2DA2	-	2N02	2N02	-	6DA2-S
4GS2-C	-	2G02	2DA2	-	4N02	2N02	-	4N02-S
4GS2-C	-	4G02	2DA2	-	4DA2-S	4N02	-	2N02
2CT3	-	4EA2-E	2DA2	-	6DA2-S	4N02	-	4N02
2CT3	-	4EA2-M	2DA2	-	4N02-S	4N02	-	4N02S
2CT3	-	6EA2-E	4DA2	-	2DA2	4N02-S	-	2N02

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(4) Optional Features and Functions

(a) Central Office Bridging Capability

(1) Voice Bridging (two-wire or four-wire) provides for the parallel connection of one voice circuit to another without interrupting the integrity or continuity of the first.

(2) Data Bridging (two-wire or four-wire): provides for the parallel connection of one data circuit to another without interrupting the integrity or continuity of the first.

(3) Telephoto Bridging (two-wire or four-wire) provides for the parallel connection of one Telephoto circuit to another without interrupting the integrity or continuity of the first.

(b) Conditioning

Conditioning provides more specific transmission characteristics for data or telephoto services. C-Type conditioning controls attenuation distortion and envelope delay distortion; DA-Type conditioning controls the Signal to C-Notched Noise Ratio and intermodulation distortion. Telephone conditioning controls attenuation distortion and envelope delay distortion.

Conditioning is charged for on a channel termination basis. C-Type and DA-Type conditioning may be combined on the same service.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(4) Optional Features and Functions (Cont'd)

(b) Conditioning (Cont'd)

(304) 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 of C-Type Conditioning are:

Attenuation Distortion
Frequency Response
Relative 1004 Hz

Frequency Range (Hz)	Variation (dB)
504-2804	-0.5 + 2.5
304-3004	-1.5 + 5.5

Envelope Delay Distortion

Frequency Range (Hz)	Variation (microseconds)
1004-2604	475
604-2604	1450
504-2804	2950

(2) Improved Attenuation Distortion

Improved Attenuation Distortion upgrades the frequency vs. loss response limits as shown below:

Frequency Range (Hz)	Variation (dB)
404-2804	-.8 to + 1.5dB
304-3004	-.8 to + 2.5dB
304-3204	-1.5 to + 5.5dB

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(4) Optional Features and Functions (Cont'd)

(b) Conditioning (Cont'd)

(3) Improved Envelope Delay Distortion

Improved Envelope Delay Distortion upgrades the frequency vs. delay response limits as shown below:

Frequency (Hz)	Variation (microseconds)
1004-2604	85
804-2604	150
604-2604	250
504-2804	550
504-3004	2950

(4) DA-Type Conditioning

DA-Type Conditioning is provided for the control of Signal to C-Notched Noise Ration and intermodulation distortion. DA-Type Conditioning is available for two-point services or multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameters for DA-Type Conditioning are:

- Signal to C-Notched Noise Ratio is equal to or greater than 34 dB.
- Intermodulation distortion
- Signal to second order modulation products (R2) is equal to or greater than 40 dB.
- Signal to third order modulation products (R3) is equal to or greater than 44 dB.

When a service equipped with DA-Type Conditioning is used for voice communications, the quality of the voice transmission may not be satisfactory.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(4) Optional Features and Functions (Cont'd)

(b) Conditioning (Cont'd)

(5) Telephoto Conditioning

Telephoto Conditioning 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 Conditioning 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

Envelope Delay Distortion

Frequency Range (Hz)	Variation (micro seconds)
1000-2600	# 75
800-2800	#130

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(B) **Voice Grade Service** [1] (Cont'd) (C)

(4) Optional Features and Functions (Cont'd)

(c) Hybrid

Provides conversion from a four-wire channel to two-wire termination at a Customer premises. Required to meet effective four-wire performance with a two-wire Customer premises protocol combination.

(d) Improved Return Loss for Effective Four-Wire Transmission

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 premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference Publication TR-NWT-000335.

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 point of termination and two-wire at the other point of termination. Placement of Telephone Company equipment may be required at the Customer's premises with the two-wire point of termination. The Improved Return Loss parameters are delineated in Technical Reference Publication TR-NWT-000335.

Additional features and functions are available as set forth in 5.5.1 following.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(C) Reserved For Future Use (C)

(D)

(D)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(C) Reserved For Future Use (Cont'd) (C)

(D)

(D)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.1 Analog Services (Cont'd)

(D)

(D)

(D) Reserved For Future Use (C)

(D)

(D)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services

(A) Reserved For Future Use

(B) **Digital Data Service** [1] (C)

(1) Description

A Digital Data (DA) channel is a channel for duplex four-wire transmission of 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0 kbps. The actual bit rate is a function of the protocol combination selected by the Customer. The channel provides a synchronous service with timing provided through the Telephone Company's facilities to the Customer in the received bit stream. Digital Data channels are only available via Telephone Company designated digital hubs and provided between customer-designated premises of between a customer-designated premises and a Telephone Company hub.

The Customer may provide in accordance with Part 68 of the FCC Rules and Regulations the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the Customer premises.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(B) **Digital Data Service** [1] (Cont'd) (C)

(2) Transmission Specifications

Parameter	Package DA-1	Package DA-2	Package DA-3	Package DA-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 percent error-free seconds while the channel is in service, if it is measured through a CSU equivalent that conforms with the specifications set forth in Technical Reference Publication TR-NWT-000341.

Voltages that are compatible with Digital Data Service are set forth in Technical Reference Publication TR-NWT-00341.

(3) Standard Protocol Combinations

A Digital Data channel is available with the standard protocol combinations set forth below. Other protocols are available at rates determined on an individual case basis.

4DS9-15*	-	6DU5-24	6DU5-48	-	6DU5-48
6DU5-24	-	6DU5-24	6DS9-15*	-	6DU5-96
4D05	-	6DU5-24	6DU5-96	-	6DU5-96
DATAPORT	-	DATAPORT	4DS9-15*	-	6DU5-56
5DS9-15*	-	6DU5-48	6DU5-56	-	6DU5-56
4DS9-15*	-	4DU5-64	4DS9-15*	-	6DU5-64
4DS9-15*	-	4DU5-19	4DS9-15*	-	6DU5-19

* Compatible only with a multiplexed 4-wire DSX protocol option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(B) **Digital Data Service** [1] (Cont'd) (C)

(4) Optional Features and Functions

- Central Office Bridging Capability provides for the parallel connection of one virtual circuit to another virtual circuit without interrupting the integrity or continuity of the first.

- Secondary channel: A data transmission channel having a lower signaling rate capability than the primary channel in a system in which two channels share a common interface.

- Data Amplification provides for data transmission when the customer is located beyond the normal range of forty-two decibel (42 dB) loss for digital data service (56.0 and 64.0 kbps). The dB loss is determined by the route and length of the cable in addition to the gauge of the cable from the last signaling point (usually, but not always the switching office) to the customer's premises. When the dB loss is greater than forty-two (42) a repeater and associated equipment must be installed to regenerate the digital signal for accurate and acceptable data transmission to occur.

The following table shows the technical specification 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
Secondary Channel				X
Data Amplification				X

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(B) **Digital Data Service** [1] (Cont'd) (C)

(5) Channel Interfaces

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

CIs	Bit Rate
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-19	19.2 kbps
DU-56	56.0 kbps
DU-64	64.0 kbps

Compatible channel interfaces are set forth in 5.2.2(B)(3) preceding.

(C) High Capacity Service

(1) Description

A High Capacity Channel is a channel for the transmission of nominal 1.544, or 44.736 Mbps asynchronous serial data. The actual bit rate is a function of the protocol combination selected by the customer. High capacity services are provided between customer designated premises through serving wire centers or between a customer designated premises and a Telephone Company hub.

The Channel Termination rate element for DS3 service may vary based on distance. The mileage used to determine the monthly rate for Channel Terminations located outside a Telephone Company Central Office is the airline distance between the customer's designated premises and the Telephone Company serving wire center. The mileage measurement is determined by utilizing exchange maps and mileage tables located in designated Telephone Company offices for such purposes.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

(2) Transmission Specifications

- Error-Free Seconds

A 1.544 channel will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which conforms with the specifications set forth in Technical Reference Publication GR-54. (T)

(3) Standard Protocol Combinations

A High Capacity channel is available with the standard protocol combinations set forth below. Other protocols are available at rate determined on an individual case basis.

4DS9-15J	-	6DU9-A
4DS9-15	-	6DU9-B
4DS9-15K	-	6DU9-B
4DS9-15K	-	6DU9-C
4DS9-31*	-	6DU9-A, B or C
4DS0-63*	-	6DU9-A, B or C
4DS6-44*	-	6DU9-A, B or C
4DS6-27*	-	6DU9-A, B or C
4DS9-31	-	4DS9-31
4DS0-63	-	4DS0-63
4DS6-44	-	4DS6-44
4DS6-27	-	4DS6-27

Compatible only with a multiplexed 4-wired DSX protocol option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

(4) Optional Features and Functions

(a) Automatic Loop Transfer (T)

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. 1xN protection provides one spare channel for up to a maximum of six working channels. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. Spare channel priority is given to the lowest number slot based upon slot position. Slot position number one is given highest priority. 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 premises. The customer is responsible for providing the equipment at its premises. This feature is not available with 1.544 Mbps channels having the B8ZS line code.

(b) Central Office Multiplexing: (T)

(i) DS3 to DS1 (T)

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(ii) DS1 to Voice (T)

DS1 to Voice: Under this option the Telephone Company will provide a digital channel bank with 24 channel plug-in mounting positions. The channel plug-in units will be provided by the Telephone Company when the Customer orders each individual service and specifies the channel position to be used and the plug-in unit specific interface code required. The multiplexing is accomplished using time division multiplexing.

Additional features and functions are available as set forth in 5.5.1 following. (T)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

(4) Optional Features and Functions (Cont'd)

(c) Clear Channel Capability (T)

Clear Channel Capability (CCC) is an arrangement that alters a DS1/1.544 Mbps signal with unconstrained information bits to meet pulse density requirements outlined in GR-54 and GR-342. This will allow a customer to transport an all zero octet over a DS1/1.544 Mbps High Capacity channel providing an available combined maximum 1.536 Mbps data rate. This arrangement requires the customer signal at the channel interface to conform to Bipolar with 8 Zero Substitution (B8ZS) line code as described in GR-54 and GR-342.

CCC is provided on DS1/1.544 Mbps High Capacity channels between two customer designated premises and is subject to the availability of facilities. This optional feature may be ordered at the same time the DS1/1.544 Mbps High Capacity channel is ordered, or it may be ordered as an additional feature of an existing channel.

(d) Digital Cross Connect Service (DCCS) (T)

(i) General Description (T)

a. Digital Cross Connect Service (DCCS) provides special access customers flexibility in reconfiguring their company provided special access networks. (T)

b. DCCS offers customers with fluctuating transmission requirements the ability to more efficiently utilize their networks by changing designated terminations without circuit changes. (T)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

(4) Optional Features and Functions (Cont'd)

(d) Digital Cross Connect Service (DCCS) (Cont'd) (T)

(i) General Description (Cont'd) (T)

c. DCCS customers may elect to merge various combinations of individual voice grade circuits (64 Kbps DS0 channels) into DS1 (1.544 Mbps) circuits. (T)

d. Individual 64 kbps DS0 channels can be bridged via an optional bridging arrangement within the digital cross-connect system. Each bridging arrangement can bridge up to 5 digital 64 kbps DS0 channels or up to 30 analog termination channels. Individual digital bridging arrangements can be connected to provide for larger bridging requirements; however, this cascading will require the use of one channel in each bridge for this connection. (T)

(ii) Customer Circuits (T)

The basic unit of service for DCCS is a single voice frequency (DS0) channel. Service is also provided for full DS1 (1.544 Mbps) digital circuits. Special access circuits associated with DCCS will be provided by the Telephone Company pursuant to the relevant terms and conditions for the type of circuit as outlined elsewhere in Section 5 of this tariff.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

(4) Optional Features and Functions (Cont'd)

(d) Digital Cross Connect Service (DCCS) (Cont'd) (T)

(iii) Customer Interface

DCCS customers may impose network reconfiguration instructions as follows:

a. Basic service - the customer submits via normal ordering procedures, requests for changes that are implemented by the Telephone Company through normal service provisioning procedures. (T) (T)

b. Company-controlled - the customer issues verbal commands to the Telephone Company's control center which accesses a Network Management System (NMS) to reconfigure the customer's network. The company-controlled capabilities are only offered where the Telephone Company has a suitable NMS. (T)

(iv) Maintenance and Operation (T)

a. When the Telephone Company performs necessary preventive and/or routine maintenance, DCCS may not be available for circuit reconfiguration. Circuits in operation during these times will continue in operation but may not be reconfigured. Upgrades in DCCS software may also require system downtime. Customers will be notified at least 24 hours in advance of outages due to software upgrades. (T)

b. No credit allowance in DCCS monthly charges will be provided for interruptions required to perform the maintenance or software upgrades. (T)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

(4) Optional Features and Functions (Cont'd)

(d) Digital Cross Connect Service (DCCS) (Cont'd) (T)

(v) Regulations (T)

a. DCCS provides network reconfiguration capability through the DCS, and establishes a jurisdictional demarcation point for dedicated services for rate application purposes. The jurisdiction and rates for the dedicated services on either side of DCCS are determined independent of the other. (T)

b. The regulations and rates for DCCS are in addition to applicable regulations and rates specified in other sections of this tariff. (T)

c. DCCS is furnished only from serving wire centers equipped with digital cross-connect systems and is provided subject to the availability of appropriate facilities. (T)

d. Optional DCCS capabilities are furnished only from serving wire centers equipped with appropriately equipped digital cross-connect systems and/or network management systems. (T)

e. Some DCCS features and functions may not be available in all digital cross-connect systems. The Customer should contact the Telephone Company to determine the availability of DCCS features in each location. (T)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

(4) Optional Features and Functions (Cont'd)

(d) Digital Cross Connect Service (DCCS) (Cont'd) (T)

(vi) Connections (T)

DCCS applies to the reconfiguration of connections between pairs of special access service channels only at the DS0 level or 24 consecutive DS0 channels. All services on channels to the DCCS may not be compatible, consequently, certain configuration combinations must be denied. The Telephone Company shall not be responsible for service interruptions, troubles, loss of customer data, etc., resulting from invalid reconfiguration attempts. A channel service compatibility list will be provided to Customers upon request.

DS0 and DS1 signals as defined in the Telephone Company's technical references may be terminated on DCCS. Other multiplexing formats must be converted to a standard D4 format. If the Telephone Company determines that the requested technical specifications are not compatible, the Customer will be notified and given the opportunity to change the order.

(vii) DCCS Options (T)

a. DS3 connections to the digital cross-connect system can be provided in suitably equipped serving wire centers. The Customer may elect to merge various DS1 and DS3 services, and in some locations may merge individual DS0 services. All other terms and conditions of DCCS as set forth in this section apply to DS3 connections. (T)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

(4) Optional Features and Functions (Cont'd)

(d) Digital Cross Connect Service (DCCS) (Cont'd) (T)

(vii) DCCS Options (Cont'd) (T)

b. Shared DCCS Arrangement (T)

Multiple Customers may include circuits with the DCCS option in the same DCCS arrangement, provided that all Customers designate in writing the same party to serve as their agent.

The designated agent will be authorized to represent each of the Customers in a shared DCCS arrangement in all transactions and communications with the Telephone Company. Such transactions may include reconfigurations, monitoring, ordering of additional special access services and DCCS Service options in the arrangement, and removal of special access services from the arrangement. The Telephone Company will not process customer orders or requests affecting shared DCCS arrangements or circuits included in shared arrangements except those submitted by the agent.

The Telephone Company shall not be liable for any loss to any of the Customers in a shared DCCS arrangement caused directly or indirectly by actions of the agent or another Customer in the shared arrangement. Each Customer in the shared arrangement and the agent shall indemnify the Telephone Company for the costs of any and all claims arising directly or indirectly out of the actions of agent or another customer in the shared arrangement, including, but not limited to, the cost of defending against such claims.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.2 Technical Service Descriptions for Special Access Service (Cont'd)

5.2.2 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

(4) Optional Features and Functions (Cont'd)

(d) Digital Cross Connect Service (DCCS) (Cont'd) (T)

(vii) DCCS Options (Cont'd) (T)

b. Shared DCCS Arrangement (Cont'd) (T)

Any Customer in a shared DCCS arrangement must give the Telephone Company 30 days prior written notice of its intent to revoke an agent's authority to remove all its special access services from a shared arrangement. Such notice shall not be effective unless the Customer provides the Telephone Company with specific and sufficient directions regarding treatment of the Customer's special access services upon revocation of the agent's authority or removal from the shared arrangement.

(viii) Application of Rates (T)

a. For each DCCS, the appropriate Basic Service DCCS connection charge applies. A DCCS connection charge is required for each special access circuit terminating via a digital cross-connect system port. (T)

b. A multipoint bridging charge is applicable for each DS0 channel that is terminated in a bridging arrangement. (T)

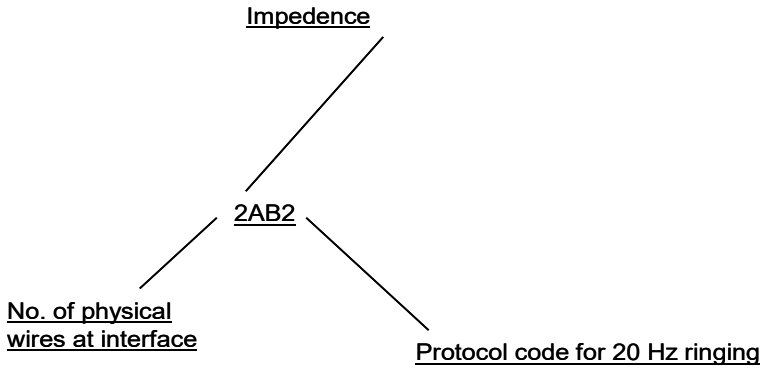
c. The company-performed reconfiguration nonrecurring charge is applicable when the Customer chooses to have Telephone Company personnel perform the reconfiguration activities. The Telephone Company will perform the reconfiguration based on instructions from the Customer. This charge is applied in increments of thirty (30) minutes for each occurrence. (T)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.3 Protocol Codes

This section explains the protocol 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 protocol codes and impedance levels.

Example: If the Customer specifies a 2AB2 protocol at the Customer's premises, it is requesting the following:



5. SPECIAL ACCESS SERVICE (Cont'd)

5.3 Protocol Codes (Cont'd)

5.3.1 Glossary of Protocol Codes and Options

Code	Option	Definition
AB		Accepts and provides a nominal 20 Hz ringing signal customer designated premises
AC		Accepts and provides 20 Hz ringing signal at point of termination
	R	Two-Digit Code Select (10)
CT		CO Centrex tie trunk termination
DA		Data stream in VF frequency band at point of termination
DB		Data stream in VF frequency band at customer designated premises
DC		Direct current or voltage
	1	Monitoring interface with series RC combination (McCulloh format)
	2	Telephone Company energized alarm channel
DD		Dataphone Select-A-Station (and TABS) interface at customer designated premises
DE		Dataphone Select-A-Station (and TABS) interface at point of termination
DO		Digital interface at customer designated premises at the digital signal zero A (DS-0A)
DS6	44	44.736 Mb/s; DS-3; Robbed Bit
	44L	44.736 Mb/s; DS-3; Single Frequency
DS9	15	1.544 Mb/s; DS-1; Robbed Bit
	15L	1.544 Mb/s; DS-1; Single Frequency
	15K	1.544 Mb/s; DS-1; Extended Framing Format
	31	3.152 Mb/s; DS-1C; Robbed Bit
	31L	3.152 Mb/s; DS-1C; Single Frequency
DU		Digital access interface at point of termination
	24	2.4 Kb/s
	28	4.8 Kb/s
	19	19.2 Kb/s
	56	56.0 Kb/s
	64	64.0 Kb/s
	96	9.6 Kb/s
	A	1.544 Mb/s format per PUB 41451
	B	1.544 Mb/s format per PUB 41451 plus D4
	C	1.544 Mb/s format per PUB 41451 plus extended framing format

(D)
(D)
(T)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.3 Protocol Codes (Cont'd)

5.3.1 Glossary of Protocol Codes and Options (Cont'd)

Code	Option	Definition
	DX	Duplex signaling interface at customer designated premises
	X	Simplex reversal (4-wire)
EA		Type I, EM signaling at either customer designated premises or point of termination
	E	Originated on E lead
	M	Originates on M lead
	EB	Type II, EM signaling at either customer designated premises or point of termination
	E	Originates on E lead
	M	Originates on M lead
	EC	Type III, EM signaling at customer designated premises; originates on M lead
	EX	Back-to-back carrier arrangements with tandem signaling
	A	LEC has closed end
	B	LEC provides dial tone
GO		Ground-start loop signaling - open end
	X	Simplex reversal (4-wire)
GS		Ground-start loop signaling - closed end
	C	Centrex foreign exchange trunk termination
	M	CO answering service concentrator
	X	Simplex reversal (4-wire)
IA		E.I.A. (25 pin RS - 232)
LA		End-user loop start loop signaling - Type A registered port, open end
LB		End-user loop start loop signaling - Type B registered port, open end
LC		End-user loop start loop signaling - Type C registered port, open end
LO		Loop-start loop signaling - open end
	X	Simplex reversal (4-wire)
LR		20 Hz automatic ringdown interface at customer designated premises with LEC provided PLAR
LS		Loop-start loop signaling - closed end
	M	CO answering service concentrator
	X	Simplex reversal (4-wire)
NO		No signaling interface, transmission only

5. SPECIAL ACCESS SERVICE (Cont'd)

5.3 Protocol Codes (Cont'd)

5.3.1 Glossary of Protocol Codes and Options

Code	Option	Definition
RV		Loop reverse battery supervision
	O	Battery supplied by LEC, Customer originates
	T	Battery supplied by Customer, Customer terminates
SF		Single-frequency signaling within VF band at either customer designated premises
	AB	SF to manual ring
	EA	SF to E&M signaling
	GO	SF to loop signaling, ground start, open end
	GS	SF to loop signaling, ground start, closed end
	LO	SF to loop signaling, loop start, open end
	LS	SF to loop signaling, loop start, closed end
	LR	SF to automatic ring
TF		Telephotograph interface
TT		Teletypewriter interface at either customer designated premises or point of termination
	2	20.0 milliamperes
	3	3.0 milliamperes
	6	62.5 milliamperes

(D)

(D)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.3 Protocol Codes (Cont'd)

5.3.2 Impedance

The nominal reference impedance with which the Customer will terminate the channel for the purpose of evaluating transmission performance are:

Value (ohms)	Code(s)
110	0
150	1
600	2
900	3
1200	4
135	5
75	6
124	7
Variable	8
100	9

5.3.3 Digital Hierarchy Protocol Codes (4DSX)

This protocol is compatible only with a multiplexed four-wire DSX-1 or higher interface option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data.

The various digital bit rates in the digital hierarchy employ the protocol code 4DS0, 4DS6, or 4DS9 plus the speed options indicated below:

SPEED OPTION	NOMINAL BIT RATE (Mbps)	DIGITAL HIERARCHY LEVEL
15	1.544	DS1
44	44.736	DS3

HIGH CAPACITY CROSSCONNECT CODE COMBINATIONS

4DS*GO	4DS*GS
4DS*LO	4DS*LS
4DS*NO	4DS*NO
4DS*EA	4DS*EA
4DS*GS	4DS*GO
4DS*LS	4DS*LO

*O = DS1/DS1 rate; 9 = DS3 or higher rate (C)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations

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

5.4.1 Types of Rates and Charges

There are two types of rates and charges. These are monthly rates, and nonrecurring charges. The rates and charges are described as follows: (C)

(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) Reserved For Future Use (C)

(D)

(D)

(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (e.g., installation or a change to an existing service). The types of nonrecurring charges that apply for Special Access are installation of service, installation of optional features and functions, and service rearrangements.

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements as set forth in 9.2.4 following or a change in the physical location of the point of termination at a customer designated premises. Changes in the type of service or service 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 5.4.3 following.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

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 date (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

Service rearrangements will be charged for as follows:

- If the change involves connecting an existing service to a multiplexed high capacity service, a charge equal to a service termination rate element nonrecurring charge will apply for the existing service per service connected.

- For all other changes, including the addition of optional 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 charge.

5.4.2 Minimum Periods

Special Access Service is provided for a minimum period of one (1) month. (C)
Minimum usage requirements are set forth in Section 9. (C)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.3 Moves

A move involves a change in the physical location of one of the following:

- The point of termination at the customer designated premises
- The customer designated premises

The charges for the move and the associated minimum period obligation are dependent on whether the move is to a new location within the same wire center area or to a different wire center area.

(A) Moves to a Different Wire Center Area

When a Customer moves to a different wire center area, the move will be treated as a disconnect and a start of service and Facilities Access Order charges as set forth in Section 9 shall apply. A new minimum period will be established. The Customer will also remain responsible for fulfilling all outstanding minimum period obligations associated with the disconnected service.

(B) Moves to a Different Building Within the Same Wire Center

When a customer designated premises is moved to a new location in a different building in the same wire center area, the existing minimum period obligations will continue in effect.

(C) Moves Within the Same Building

When a Customer moves to a new location within the same building in the same wire center area, the existing minimum period obligations will continue in effect.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.3 Moves (Cont'd)

(D) Upgrades

An upgrade occurs when a Customer orders an increase from a lower service type to a higher service type. An example of an upgrade in service is:

- Voice Grade 2W or 4W to DS1 1.544 Mbps

Upgrades in service will be considered rearrangements and as such, rearrangement charges listed in Section 5.4 and Access Order charges as found in Section 9.2 will apply. In order for a customer to be eligible for the lower rearrangement charges, the Customer must indicate on the Access Service Request (ASR) in the "Remarks Section" that the access service order is an upgrade of Special Access service.

Another example of a service rearrangement would be a reconfiguration, which alters existing channel utilization on two or more DS1 High Capacity circuits. For example, a customer with two or more High Capacity circuits may request that the Telephone Company switch or "rehome" selected channels from one D4 channel bank and move them to another D4 channel bank. Reconfigurations will be treated as a rearrangement and therefore, rearrangement charges listed in Section 7.5 and Access Order charges as found in Section 9.2 will apply.

ISSUED: October 5, 2001

EFFECTIVE: November 5, 2001

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.4 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage Facility rate element is calculated on the airline distance between the serving wire centers 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 or between the serving wire center associated with a customer designated premises and a WATS serving office. 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. The V & H coordinates method is used to determine mileage. This method is explained in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4 if the method results in fractional miles, the fractional miles are rounded up to the nearest whole number before determining the rate to be billed. The serving wire center and hub V & H coordinates are also included in that tariff. 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. (T)

5.4.5 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 is ordered 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 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.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.5 Shared Use Analog and Digital High Capacity Services (Cont'd)

As each individual channel is activated for Switched Access Service, the Special Access Channel Termination, Channel Mileage and Multiplexer rates will be reduced accordingly (e.g., 1/24th for a DS1 service and 1/672 for DS3 Service, etc.). The rates for Switched Access Service set forth in Section 4 apply to Switched Access Services provided over shared facilities. 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. After the service date, facilities Access Order charges apply for a change in the Special Access Service or Switched Access Service configuration provided over shared facilities.

5.4.6 Special Access Surcharge

The rates, rules, and provisions for the Special Access Surcharge are set forth in the CenturyLink Operating Companies' Tariff F.C.C. No. 9, Section 7. (T)

5.4.7 Reserved For Future Use

5.4.8 Facility Hubs

A Customer has the option of ordering Voice Grade service or High Capacity services to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Voice, 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 placing an Access Order the customer will specify the desired hub. Serving wire centers, and hub locations, and the type of multiplexing functions available are identified in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.8 Facility Hubs (Cont'd)

Point to point services may be provided on channels of these services to a hub. The transmission performance for the point to point service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps channel 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 service to the hub on the date specified by the Customer on the Access Order. Individual channels utilizing these services may be installed coincident with the installation of the service to the hub or may be ordered and/or installed at a later date, at the option of the Customer. The Customer will be billed for a Voice Grade or a High Capacity Channel Termination, Channel Mileage (when applicable), and the Multiplexer at the time the service is installed. Individual service rates (by service type) will apply for a 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 service is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a 6.312 Mbps High Capacity service is de-multiplexed to four DS1 channels and then one of the DS1 channels is further de-multiplexed to 24 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.

(D)

(D)

5.4.9 Reserved For Future Use

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.10 Special Access Term Discount Plan

(A) General

The Special Access Term Discount Plan (TDP) applies to Special Access High Capacity DS1 (1.544 Mbps) and DS3 (44.736 Mbps) Services. The TDP provides the Customer with discounted rates for the services listed. The Customer agrees to a minimum service commitment per service when the TDP is established.

In order for a circuit to be eligible for TDP pricing, the Customer must commit a channel termination and/or multiplexer associated with that circuit to a TDP. The commitment level for a circuit will be based on channel terminations and/or multiplexers. Customers may disconnect or move channel terminations and/or multiplexers and not be subject to termination liability charges as long as the commitment levels are maintained. Optional features and functions will not be included in a TDP.

Access order charges as set forth in Section 9 following will apply for new services installed under a TDP, and are in addition to the nonrecurring charges associated with the installation of the DS1 or DS3 high capacity service as set forth in 5.5.13 following.

(B) Commitment Level

All eligible special access rate elements for a given circuit (channel termination, channel mileage termination (fixed), channel mileage facility (per mile), and multiplexing) must be ordered for the same commitment period with the same service date for the same customer. A customer establishes a TDP by committing all or a portion of in service channel terminations and/or multiplexers to a term of three years or five years. During the term of the selected TDP the Customer must maintain an in service commitment threshold of not less than 90 percent or more than 130 percent of the committed channel terminations and/or multiplexers.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.10 Special Access Term Discount Plan (Cont'd)

(B) Commitment Level (Cont'd)

As long as a Customer's actual in service level of channel terminations and/or multiplexers remains within the commitment threshold, the customer will be billed the TDP rate for all eligible rate elements. Additionally, if a customer's in-service level exceeds the initial in-service level by no more than 30 percent, the Customer will be billed the TDP rates for all eligible rate elements. For example, the Customer has 200 DS1 channel terminations and/or multiplexers and elects to commit 150 channel terminations and and/or multiplexers to a three-year TDP. The Customer will be billed TDP rates as long as the in-service level of channel terminations and/or multiplexers is equal to or greater than 135 (90 percent minimum threshold) but not more than 195 (130 percent maximum threshold).

If the Customer's in-service request exceeds the initial service level by more than 30 percent, the Customer will be billed the month-to-month rate for all facilities above the upper limit of the commitment threshold. If the Customer's in-service level falls below the minimum commitment threshold, the Customer will be billed termination liability charges for the number of Channel Terminations and/or Multiplexers below the minimum commitment threshold, and the customer's commitment level will be decreased to 110 percent of the customer's current in-service level. For example, a customer whose minimum commitment threshold is 135 Channel Terminations and/or Multiplexers (90% of 150), but only has 125 in service, will be billed termination liability charges for 10 Channel Terminations and/or Multiplexers and the customer's commitment level will be decreased to 138 (110% of 125).** (C) (C)

Although the commitment level is based upon channel terminations, and/or multiplexers, the following rate elements will receive TDP rates:

Channel Mileage Facility (per mile)
Channel Mileage Termination (fixed)
Channel Termination
Multiplexing

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.10 Special Access Term Discount Plan (Cont'd)

(C) Ordering Provisions

The Customer must order a TDP in writing to the Telephone Company. A TDP may be ordered based on the following plan options:

Three Year Plan
Five Year Plan

The Customer must specify the plan and the length of the service commitment period at the time the service is ordered (e.g., Three Year Plan). The Customer agrees to a minimum service commitment level per service in effect at one time. For example, a customer that has a three-year plan in effect for DS1 Service may not establish a second three-year DS1 TDP until the current TDP expires. Once the plan is established and commitment levels are agreed upon, standard access ordering procedures will be followed.

When a Customer converts to a TDP, no access order charges are applied toward facilities in service at that time. If a Customer moves from a month-to-month plan to a TDP, or upgrades from one TDP to another, no access order charges are applied.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.10 Special Access Term Discount Plan (Cont'd)

(D) Service Rearrangements

When a circuit committed to a TDP is rearranged as set forth in 5.4.1(C) preceding, the nonrecurring rearrangement charge associated with the month-to-month rates for that service will apply. Changes in the type of service or service termination are treated as disconnects and starts, and the nonrecurring charge associated with the month-to-month rates for that service applies. Changes in physical location at the point of termination are treated as moves, as described in 5.4.3 preceding, and will be assessed the nonrecurring charge associated with the month-to-month rates for that service.

(E) 90-Day Review Period

No adjustments in monthly billing for a TDP, for being above or below the commitment threshold described in (B) preceding, will take place until ninety days after Company written notification to the Customer that the commitment threshold has been exceeded or has not been met. This will ensure that Customers will not be penalized for aberrations in channel termination and/or multiplexer counts caused by timing differentials in disconnection and installation.

Customer bills will not be adjusted for being outside of the threshold described in (B) preceding during the 90-day review period. Additionally, Customers will continue to be billed the adjustments (following the 90-day review period) for being outside of the described threshold until the commitment level is met or reestablished. A new 90-day review period will be initiated if the Customer's actual in service level subsequently falls outside of the described threshold.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.10 Special Access Term Discount Plan (Cont'd)

(F) Increasing the TDP Commitment Level

Customers may increase their commitment level at any time by notifying the Company in writing. An increase in the commitment level will not change the expiration date of the TDP.

When a commitment level is increased, the actual in service channel termination and/or multiplexer level at the time of the increase will be used to calculate the new commitment threshold as described in (B) preceding.

Upon written notification to the Company, Customers may elect to have all future channel terminations and/or multiplexers installed during a commitment period automatically placed on the designated TDP.

Customers may request, upon written notification to the Company, that the Company automatically increase the Customer's TDP commitment level when the 130 percent commitment threshold, as set forth in (B) preceding, is exceeded. The adjusted commitment level will be the actual channel terminations and/or multiplexers in service under the TDP at the time the 130 percent threshold is exceeded. The expiration date of the Customer's TDP will not be affected by this change.

The Customer may rescind its request to automatically add future channel terminations and/or multiplexers, or to automatically increase its commitment level when the 130 percent threshold is exceeded, by notifying the Company in writing.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.10 Special Access Term Discount Plan (Cont'd)

(G) Decreasing the TDP Commitment Level and Termination Liabilities

Customers may only decrease their commitment level by paying termination liability charges on the number of channel terminations and/or multiplexers by which the commitment level is decreased. Termination liabilities will apply to applicable services covered by the TDP. For example, a Customer has a commitment level of 150 channel terminations and/or multiplexers. The Customer then decreases its commitment level to 125. The Customer must pay a termination liability on the most recently disconnected 25 facilities, inclusive of all associated rate elements as listed above.

If a Customer disconnects any portion of their TDP service prior to the expiration of the commitment period, the Customer will be billed 50 percent of the monthly TDP charges for the remaining portion of the committed term. For example, a Customer disconnecting in the twelfth month of a three-year plan will be charged 50 percent of the remaining twenty-four months of billing.

(H) Rate Changes

In this section, the term “rate” refers to the charges associated with the entire circuit covered by a TDP. Rate increases or decreases will automatically be applied to the monthly term plan rates for the remaining term of the TDP. If a Telephone Company initiated rate increase causes a Customer’s rates to increase by 10 percent or more at any one time, the Customer may cancel the TDP without incurring termination liability Charges.

(I) Extension of a TDP Commitment Period

TDP commitment periods can be extended by the Customer at any time during the term of the plan, up to a maximum of five years. The number of months accrued in the current plan will apply toward the new plan selected. For example, a Customer having completed fifteen months of a three-year commitment can extend the commitment to five years and no additional charges will be assessed. The first payment will be considered the sixteenth payment under the new five-year plan.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.4 Rate Regulations (Cont'd)

5.4.10 Special Access Term Discount Plan (Cont'd)

(J) Upgrade in TDP Capacity (DS1 to DS3)

When a Customer upgrades a DS1 service being billed TDP rates to a DS3 service with the same termination points, the Customer's DS1 TDP commitment level will be reduced at the Customer's request (up to a maximum of twenty-eight) and no termination liability charge will apply. The DS1 disconnect order and the DS3 installation order must be received by the Company at the same time.

(K) Renewal of a TDP

Two options are available for renewing a TDP:

(1) At the end of the TDP service commitment period the Customer may subscribe to a new TDP at the prevailing rates set forth in 5.5.14 following. If the Customer does not select a new TDP, the rates will convert to the prevailing month-to-month DS1 or DS3 rates set forth in 5.5.13 following. The Customer will have a 90-day grace period to renew the TDP before month-to-month rates are assessed.

(2) At any time during the term of a TDP the Customer may replace an existing TDP with a new TDP for the same circuit at the prevailing rates set forth in 5.5.14 following. The new TDP must have a term equal to or greater than the existing TDP and no termination liability charge will apply.

(L) Cancellation Charges

When a Customer cancels an order for special access services being provided under a TDP, cancellation charges as set forth in Section 9.2.6 following, will be calculated using the nonrecurring charges associated with the month-to-month rates for the service being cancelled.

5. SPECIAL ACCESS SERVICE (Cont'd)

5.5 Rates and Charges

5.5.1 Optional Features and Functions

The following features and functions may be added to a service to meet the specific technical demands requested by the Customer. The provision of all features and functions is subject to individual Telephone Company plant and equipment availability.

(A) Multiplexing

		Monthly Rate	Nonrecurring Charge	
(1)	**DS1 to Voice** [1]			(C)
	- Per Arrangement	$290.00	$175.00	
(2)	Reserved For Future Use			
(3)	DS3 to DS1			
	- Per Arrangement	$600.00	$200.00	

(B)	**Bridges (Per Card)** [1]	Monthly Rate	(C)
(1)	Station Bridge	ICB	
(2)	Data Bridge	$18.77	
(3)	Voice Bridge	ICB	

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.5 Rates and Charges (Cont'd)

5.5.1 **Optional Features and Functions** [1] (Cont'd) (C)

(C) Miscellaneous (Cont'd)

(1) Reserved For Future Use

(2) Reserved For Future Use

(3) C - Type Conditioning

	Monthly Rate
	$1.30

(4) DA - Type Conditioning

	Monthly Rate
	$1.30

(5) Telephoto Conditioning

	Monthly Rate
	ICB

(6) Gain Conditioning

	Monthly Rate
	ICB

(7) Stereo

	Monthly Rate
	ICB

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.5 Rates and Charges (Cont'd)

5.5.1 **Optional Features and Functions** [1] (Cont'd) (C)

(C) Miscellaneous (Cont'd)

(8) Hybrid

	Monthly Rate
	ICB

(9) Improved Return Loss for Effective Four-Wire Transmission

	Monthly Rate
	ICB

(10) Automatic Loop Transfer

(a) Basic 1 X N expandable to 1 X 6, equipped with 1 X 1

	Monthly Rate *	Nonrecurring Charge
	$295.00	NONE

(b) Basic 1 X N expandable to 1 X 6 each additional working line

	Monthly Rate *	Nonrecurring Charge
	ICB	NONE

(11) Clear Channel Capability (CCC)

- Per Point of Termination

	Monthly Rate *	Nonrecurring# Charge
	NONE	$191.00

* These rates are in addition to those for High Capacity Channels

\# A nonrecurring charge will apply when CCC is ordered for a DS1 circuit already in service.

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.5 Rates and Charges (Cont'd)

5.5.1 Optional Features and Functions (Cont'd)

(C) Miscellaneous (Cont'd)

(12) Digital Cross Connect Service (T)

(a) Connection Charge (Per DS0) Connection

Monthly Rate	Nonrecurring Charge
$7.60	$21.00

(b) Connection Charge (Per DS1 Connection)

Monthly Rate	Nonrecurring Charge
$70.00	$53.00

(c) Bridging Per Termination

Monthly Rate	Nonrecurring Charge
$5.40	$10.00

(d) Company Performed Reconfiguration
(Per 30 Minute Increment, per Occasion)

Nonrecurring Charge
$20.50

(13) Other Protocol Combinations (T)

Monthly Rate	Nonrecurring Charge
ICB	ICB

(14) Data Amplification (56.0 Kbps) (T)

Monthly Rate	Nonrecurring Charge
$85.00	$100.00

5. SPECIAL ACCESS SERVICE (Cont'd)

5.5 Rates and Charges (Cont'd)

5.5.2 Reserved For Future Use

5.5.3 Reserved For Future Use

5.5.4 Reserved For Future Use

5.5.5 Reserved For Future Use

5.5.6 Reserved For Future Use

5.5.7 **Voice Grade Service** [1] (C)

Monthly Rate

(A) Channel Termination Rates

- Per Point of Termination

(1) Two-Wire $23.31

(2) Four-Wire 37.30

(B) Channel Mileage Rates

- Per Mile, Per Voice Grade Equivalent Circuit

Monthly Rates	
Per Termination (Fixed)	Per Facility (Per Mile)
$35.40	$1.24

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.5 Rates and Charges (Cont'd)

5.5.8 Reserved For Future Use (C)

(D)

(D)

5. SPECIAL ACCESS SERVICE (Cont'd)

5.5 Rates and Charges (Cont'd)

5.5.9 Reserved For Future Use (C)

(D)

(D)

5.5.10 Reserved For Future Use

5.5.11 Reserved For Future Use

5. SPECIAL ACCESS SERVICE (Cont'd)

5.5 Rates and Charges (Cont'd)

5.5.12 **Digital Data Service** [1] (C)

(A) Channel Termination Rates

- Per Point of Termination

	Monthly Rate
- All Speeds (2.4, 4.8, 9.6, 19.2, 56.0 and 64.0 Kbps)	$69.56

(B) Channel Mileage Rates

All Speeds (2.4, 4.8, 9.6, 19.2, 56.0 and 64.0 Kbps)
- Per Mile, Per Voice Grade Equivalent Circuit

Monthly Rates	
Termination (Fixed, Per Month)	Facility (Per Mile, Per Month)
$156.92	$2.10

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

5. SPECIAL ACCESS SERVICE (Cont'd)

5.5 Rates and Charges (Cont'd)

5.5.13 High Capacity Service

(A) Channel Termination Rates

- Per Point of Termination

	Monthly Rate	Non-Recurring Installation Charge	Non-Recurring Rearrangement Charge
1.544 Mbps	$ 214.00	$600.00	$456.00
44.736 Mbps - within CO	1,390.00	563.00	306.00
44.736 Mbps - 0-3 miles	1,650.00	563.00	306.00
44.736 Mbps - over 3 miles	2,900.00	563.00	306.00

(B) Channel Mileage Rates

	Monthly Rates		
	Termination (Fixed)	Facility (Per Mile)	
1.544 Mbps	$ 230.00	$ 19.00	(T) (T) (D)
44.736 Mbps	2,000.00	170.00	

5. SPECIAL ACCESS SERVICE (Cont'd)

5.5 Rates and Charges (Cont'd)

5.5.14 Special Access Term Discount Plan

(A) Channel Termination

- Per Point of Termination

(1) 1.544 Mbps

	Monthly Rate
- Three Year Plan	$158.00
- Five Year Plan	131.00

(2) 44.736 Mbps

	Monthly Rates		
	Within CO	0-3 Miles	Over 3 Miles
- Three Year Plan	$1,084.00	$1,287.00	$2,262.00
- Five Year Plan	904.00	1,073.00	1,885.00

(B) Channel Mileage

	Three Year Plan	Five Year Plan	
(1) 1.544 Mbps			
(a) Channel Mileage Termination (Fixed-Per Month)	$172.00	$144.00	
(b) Channel Mileage Facility (Per Mile-Per Month)	15.00	12.00	(T)
(2) 44.736 Mbps			
(a) Channel Mileage Termination (Fixed-Per Month)	1,560.00	1,300.00	
(b) Channel Mileage Facility (Per Mile-Per Month)	133.00	111.00	(T)

5. SPECIAL ACCESS SERVICE (Cont'd) (N)

5.5 Rates and Charges (Cont'd)

5.5.14 Special Access Term Discount Plan (Cont'd)

(C) Multiplexing

	Monthly Rate
(1) DS1 to Voice	
- Per Arrangement	
Three Year Plan	$232.00
Five Year Plan	$203.00
(2) DS3 to DS1	
- Per Arrangement	
Three Year Plan	$450.00
Five Year Plan	$400.00 (N)

6. RESERVED FOR FUTURE USE

ISSUED: July 23, 2001

EFFECTIVE: July 24, 2001

7. SPECIALIZED SERVICE OR ARRANGEMENTS

7.1 General

Specialized service or arrangements will be provided by the Telephone Company, at the request of a Customer, on an Individual Case Basis (ICB) 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 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.

7.2 Rates and Charges

Rates and charges and additional regulations, if applicable, for specialized service or arrangements are provided on an Individual Case Basis.

ISSUED: July 23, 2001

EFFECTIVE: July 24, 2001

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES

In this Section 8, Basic Time refers to the period when services are performed by the Telephone Company on business days during regularly scheduled work hours. Overtime refers to the period when services are performed by the Telephone Company on business days but outside of regularly scheduled work hours. Premium time refers to the period when services are performed by the Telephone Company on non-business days, such as weekends and holidays.

8.1 Additional Engineering

(A) General

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

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 Sections 4.1.3 and 5.1.6.

Additional engineering time is incurred by the Telephone Company to engineer a Customer's request for a customized service (i.e., not conforming to the predefined technical specifications for services set forth in Sections 4 and 5).

The Telephone Company will notify the Customer that additional engineering charges, as set forth in Section 8.1(B), will apply before any additional engineering is undertaken.

(B) 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
(1) Basic Time, per engineer	$13.01	$13.01
(2) Overtime, per engineer	19.52	19.52

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.2 Additional Labor

Additional Labor is that requested by the Customer on a given service as set forth in Sections 8.2.1 through 8.2.6. The Telephone Company will notify the Customer that Additional Labor charges as set forth in Section 8.2.7 will apply before any additional labor is undertaken.

8.2.1 Overtime Installation

Overtime installation is that Telephone Company installation effort performed outside of the Telephone Company's normally scheduled business day. (T) (T)

8.2.2 Overtime Repair

Overtime repair is that Telephone Company maintenance effort performed outside of the Telephone Company's normally scheduled business day. (T) (T)

8.2.3 Additional Installation Testing

Additional installation testing is that testing performed by the Telephone Company at the time of installation which is in addition to the normal preservice acceptance testing as specified in Section 9.2.7 to ensure the satisfactory performance of Access Service ordered by the Customer. In no event shall a charge be made for additional labor that is related solely with testing with other telephone companies.

8.2.4 Standby

Standby includes all time in excess of one-half (1/2) hour during which the Customer requests Telephone Company personnel to standby for any purpose. For Video service, the standby of technician(s) is mandatory.

8.2.5 Testing and Maintenance with Other Telephone Companies

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

8.2.6 Other Labor

Other labor is that additional labor not included in Sections 8.2.1 through 8.2.5 and labor incurred to accommodate a specific Customer request that involves only labor that is not covered by any other section of this tariff.

8.2.7 Charges for Additional Labor

Hourly charges are calculated from the time Telephone Company personnel are dispatched and end when the work is completed. The charges for Additional Labor are as follows:

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.2 Additional Labor (Cont'd)

8.2.7 Charges for Additional Labor (Cont'd)

(A) Installation or Repair, Overtime, per technician

First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
$31.10	$31.10

(B) Additional Installation Testing, Standby, Testing and Maintenance with Other Telephone Companies, or Other Labor

(1) Basic Time, per technician

First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
$20.73	$20.73

(2) Overtime, per technician

First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
$31.10	$31.10

(3) Premium Time, per technician

First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
$41.46	$41.46

(C) Service by a Telephone Company employee at a time not consecutive with his normally scheduled business day is subject to a minimum charge of three (3) hours at the rate specified in Sections 8.2.7(B)(2) or 8.2.7(B)(3), as applicable. (T)

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges

8.3.1 Maintenance of Service Charge

When a Customer reports a trouble to the Telephone Company for clearance, the Customer shall be responsible for payment of a Maintenance of Service Charge where the Telephone Company dispatches personnel 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. No charge will apply where trouble is not found in the Telephone Company facilities if the trouble is actually in these facilities but not discovered at the time. The time period for which the Maintenance of Service Charge is applied will commence when Telephone Company personnel are dispatched and end when the work is completed. The applicable charges are applied on a per half-hour, per technician basis at the rates specified for Additional Labor as set forth in Section 8.2.7(B) preceding.

8.3.2 Telecommunications Service Priority (TSP) System

(A) Regulations

(1) The TSP System was developed to satisfy the requirements of the National Communications System (NCS) of the Federal Government and provides the regulatory, administrative and operational procedures authorizing the priority installation and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services. TSP applies only to NSEP telecommunications services, and authorizes the Telephone Company to take priority action in the provision and restoration of such services.

(2) Priority installation and/or restoration of NSEP telecommunications services shall be provided in accordance with Part 64.401, Appendix A, of the Federal Communication Commission’s (FCC’s) Rules and Regulations and in accordance with the guidelines set forth in “Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook” (NCS) Handbook 3-1-2) dated July 11, 1989.

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.2 Telecommunications Service Priority (TSP) System (Cont'd)

(A) Regulations (Cont'd)

(3) The customer requesting TSP System Service must be the same customer for which the associated Access Service is provided.

(4) Certain conditions may require that one or more customer services with a lower or no restoration priority be preempted in order to install or restore NSEP telecommunications service(s) of a higher priority. When such preemption is necessary, the Telephone Company will make reasonable effort to notify the preempted service customer of the action to be taken. Credit allowances for such service preemption shall be made in accordance with the provisions set forth in Section 2.4.3 of this tariff.

(5) In obtaining TSP, the customer authorizes the Telephone Company to provide certain customer record information to the Manager, NCS of the Federal Government so that the government can maintain and administer its TSP System. This customer record information will include only the customer's name, TSP Authorization Code, Telephone Company Circuit/Service ID, customer telephone number, and customer mailing address.

(6) In order to provide priority restoration service in compliance with Part 64.401, Appendix A, of the FCC's Rules and Regulations, the Telephone Company may be unable to notify the customer in advance where additional labor charges apply, as set forth in 8.2, before the required additional labor is undertaken. The customer, in obtaining a restoration priority, recognizes that quoting charges and obtaining permission to proceed with the restoration of certain access services will cause unnecessary delays and, as a result, would be contrary to the aforementioned Rules and Regulations.

In subscribing to TSP, the customer recognizes this condition and grants the Telephone Company the right to quote charges after the restoration has been completed.

(7) When an assigned restoration priority is discontinued or revoked, and the associated access service is continued in service, no charge applies for such discontinuance.

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.2 Telecommunications Service Priority (TSP) System (Cont'd)

(A) Regulations (Cont'd)

(8) Credit allowance provisions for an interruption in priority restoration are the same as those for the access service with which it is associated, as set forth in 2.4.3 preceding.

(9) When a customer requests that a priority installation be expedited (i.e., essential and emergency services), any applicable expedite charges will apply in addition to the priority installation charges set forth in 8.3.2(B)(1) following.

(10) In the event that the Telephone Company must utilize specially constructed facilities in the priority installation of an access service, the regulations, rates and charges set forth in Section 10, following for the service for which priority installation is required shall also apply.

(11) The activities performed by the Telephone Company in the provision of TSP are included in the following rate elements:

(a) Priority Installation - includes provision of confirmation information to the Manager, NCS, of the Federal Government, verification of TSP code assignments, and installation preemption, if necessary.

(b) Priority Restoration Implementation - includes provision of confirmation information to the Manager, NCS, of the Federal Government and verification of TSP code assignment.

(c) Priority Restoration Change - includes provision of confirmation information and TSP code verification when a priority restoration level is changed on an associated access service.

(d) Priority Restoration Maintenance - includes TSP system administration and maintenance, reconciliation of TSP code levels, and restoration preemption, if necessary.

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.2 Telecommunications Service Priority (TSP) System (Cont'd)

(B) Rates and Charges

The following rates and charges are in addition to all other rates and charges applicable for other services furnished under the provisions of this tariff which operate in conjunction with the TSP System. This includes, but is not limited to Maintenance of Service as set forth in 8.3.1 preceding.

	Monthly Rate	Nonrecurring Charge
- Per Circuit		
(1) Priority Installation *	None	$96.00
(2) Priority Restoration Implementation *	None	50.25
(3) Priority Restoration Change *	None	50.25
(4) Priority Restoration Maintenance and Administration	$24.50	None

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.3 Testing Services

The Telephone Company will perform such tests as are reasonably necessary (see Section 9.2.7) to ensure that Access Services ordered by a Customer are functioning properly prior to turning over the Access Services to the Customer. In addition, the Telephone Company, as part of the on going work to maintain the continued satisfactory performance of the Access Services ordered by the Customer will perform on a routine basis such tests as are reasonably necessary to maintain that level of performance. End-to-end through tests which are technically feasible and tests which show trouble to be located solely within the equipment and facilities of the Telephone Company are within the scope of these tests and are performed by the Telephone Company at no additional charge.

Testing Services covered in this section are only those requested by the Customer which are in addition to the tests described in the preceding paragraph and will be provided at the charges set forth in Section 8.3.3(E). Testing Services are subject to the availability of test equipment and personnel at the Telephone Company test location. Testing Services are normally provided by the Telephone Company personnel at Telephone Company locations. However, provision is made in Section 8.3.3(C) for a Customer to request Telephone Company personnel to perform Testing Services at the Customer's premises.

Testing Services covered in this section which are to be conducted in coordination with the Customer will be subject to additional stand-by labor charges as set forth in Section 8.2.7(B).

(A) Switched Access Service

In connection with Switched Access Service the following Testing Services are available on an optional basis.

(1) Automatic Distribution of Telephone Company Test Results

On a routine basis, the Telephone Company performs periodic tests, according to a schedule determined by the Telephone Company, of the Access Services ordered by the Customer to maintain continued satisfactory performance. Based on the availability of compatible test equipment being present at the Customer location, such routine tests may be of the following types:

102
104
105

At the request of the Customer the documented results of these tests will be made available for the charges set forth in Section 8.3.3(E).

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.3 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(2) Testing in Accordance with a Customer Prescribed Schedule

The Telephone Company will normally determine the schedule of tests to be performed and based on the availability of equipment, the types of testing to be performed on a routine basis. Where capacity is available, the Testing Services described above can be conducted in accordance with a Customer prescribed schedule, which is agreed to by the Telephone Company. Orders for this service must be submitted to the Telephone Company 60 days prior to the start of the Customer prescribed schedule.

Where automated testing capabilities are utilized to conduct routine tests, the same tests conducted on a more frequent basis in accordance with a Customer prescribed schedule will be subject to the rates and charges as set forth in Section 8.3.3(E)(1)(b). Where routine testing is performed on a manual basis, the same tests conducted on a more frequent basis in accordance with a Customer prescribed schedule, will be subject to rates and charges as set forth in Section 8.3.3(E)(3).

(3) Office Test Line Access

This testing service provides access to the telephone test line terminations, where available and on a schedule agreed to by the Telephone Company, for the purpose of enabling the Customer to perform testing of inward, outward and two-way transmission paths to the Telephone Company first switching point.

(4) CCS7 Testing Requirements

When Feature Group D, with the CCS7 option is ordered, network compatibility and other operational tests will be performed cooperatively by the Telephone Company and the Customer. These tests are as specified in the industry Network Operations Forum (NOF) as well as those specified in Bellcore Technical Publication TR-TSV-000905 and other related documentation.

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.3 Testing Services (Cont'd)

(B) Special Access Service

Subject to the availability of test equipment and personnel at the Telephone Company test location, the Telephone Company will provide assistance in performing specific tests requested by the Customer.

(C) Specialized Manual Testing (Switched or Special)

Manual testing consists of providing one or more Telephone Company technicians to perform specialized testing functions as directed by the Customer. Such testing functions may include the performance of testing at the customer-designated premises.

(D) Obligation of the Customer

When the Customer subscribes to Testing Service, the Customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

(E) Rates and Charges

(1) Switched Access Testing Service

		Monthly Rate	Nonrecurring Charges
(a)	Provision of test results	ICB	ICB
(b)	Automated Testing per Customer prescribed scheduled, per request per occurrence * per transmission path, per trunk group	ICB	ICB

* An occurrence is completed when all available trunks included in the request are accessed for test purposes.

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.3 Testing Services (Cont'd)

(E) Rates and Charges (Cont'd)

(2) Special Access Testing Service

(a) Basic Time, per technician

First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
$20.73	$20.73

(b) Overtime, per technician

First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
$31.10	$31.10

(c) Premium Time, per technician

First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
$41.46	$41.46

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.3 Testing Services (Cont'd)

(E) Rates and Charges (Cont'd)

(3) Specialized Manual Testing

(a) Basic Time, per technician

First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
$20.73	$20.73

(b) Overtime, Time per technician

First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
$31.10	$31.10

(c) Premium Time, per technician

First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof
$41.46	$41.46

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.4 Presubscription Procedures

(A) Presubscription is a procedure whereby an End User# may select and designate to the Telephone Company an Interexchange Carrier (IC) to access, without dialing an access code, for intraLATA and interLATA intrastate calls. The end user may select one (1) IC for both intraLATA and interLATA calls or they may select one (1) IC for their interLATA calls and a different IC or the Telephone Company for their intraLATA calls. The selected ICs are referred to as the End User's primary ICs. The presubscription procedure also allows the agent* representing a pay telephone to select and designate to the Telephone Company ICs to access, without dialing an access code, for intraLATA and interLATA intrastate calls. Presubscription is available only to End Users served by end offices that have been converted to provide Feature Group D Switched Access Service.

(B) InterLATA presubscription of residence and business lines and/or trunks is furnished in accordance with the detailed provisions of the Federal Communications Commission's Allocation Plan. The plan with all appendices is available for inspection at the main building of the Federal Communications Commission in the Public Reference Room of the Tariff Division. Copies may be obtained from the Federal Communications Commission's Commercial Contractor. IntraLATA presubscription of residence and business lines and/or trunks is furnished in accordance with the Virginia State Corporation Commission's Order Establishing Requirements and Conditionally Approving Plans, Case No. PUC970009.

The same detailed provisions also apply to pay telephone presubscription for end offices converting to equal access after February 10, 1990. Pay telephone presubscription for end offices converted to equal access prior to February 10, 1990, will follow a transition schedule. After that date, pay telephone lines will be included in the standard presubscription time line for the end office.

For purposes of this section, the term End User also includes Alternative Local Exchange Carriers (ALECs) that are certified to resell local exchange telecommunications services.

* An agent is the person or persons who have the legal authority to give the Telephone Company permission for the placement of pay telephones on their premises and who control access to or usage of the pay telephone.

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.4 Presubscription Procedures (Cont'd)

(C) Presubscription Charge Application

(1) New end users or agents, who will be served by end offices equipped with equal access, will be asked to select a primary IC for both intraLATA and interLATA calls or select one (1) IC for their interLATA calls and a different IC or the Telephone Company for their intraLATA calls at the time they place an order with the Telephone Company for Telephone Exchange Service.

For an interLATA IC selection, a confirming notice will be mailed to the new end user or agent when an IC is verbally chosen. (D)

(D)

New end users or agents will be offered a list of participating carriers to aid in their selection of primary interLATA and intraLATA ICs. There will be no charge for these initial selections.

After the end user's or agent's initial primary IC selections, for any change thereafter, a charge, as set forth in (E) following, applies.

(2) End users may designate that they do not want primary interLATA and intraLATA ICs. These choices are considered valid selections and Presubscription Charges will apply to any subsequent changes. These "No Primary IC" designations are not available to pay telephone agents.

(3) Should an IC elect to discontinue Feature Group D service in an end office converting to equal access prior to the conversion date, or within two years after the introduction of Feature Group D in the converted end office, the IC shall contact in writing all end users and agents who selected, or were allocated to, the canceling IC as their designated IC. Such written notification must advise these end users and agents of the IC cancellation, request that the end users or agents select a new IC, and state that the canceling IC will pay the change charge.

For a period of two years following the IC's discontinuance of Feature Group D service, the Telephone Company will bill the canceling IC the change charge for each end user and agent that is currently designated to the IC at the time of discontinuance.

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.4 Presubscription Procedures (Cont'd)

(C) Presubscription Charge Application (Cont'd)

(4) The Telephone Company will make post conversion changes in the end user's or agent's interLATA and intraLATA PIC assignments pursuant to an IC provided list of customers, accepted by the Telephone Company under the conditions set forth preceding. Should an end user or agent dispute authorization of the change in PIC assignments, the Telephone Company will place the end user or agent on the previous carrier's network where possible and the carrier will be billed in accordance with 8.3.4(D) following.

(D) Unauthorized PIC Carrier Restoration

An Unauthorized PIC Carrier Restoration is a change in the preferred PIC assignment that the end user or agent denies authorizing. If an end user or agent denies requesting the change in PIC assignment as submitted by the IC, the alleged unauthorized IC will be assessed the PIC change charge as set forth in 8.3.4(E) for the following:

- Changing the end user or agent to the disputed IC, and;

- Placing the end user or agent back on their previous IC's network.

(E) Presubscription Charge

The nonrecurring charges for changes in presubscription are as follows:

	Nonrecurring charge *
Per line or trunk	
Primary InterLATA IC	$5.89
Primary IntraLATA IC	5.89

* This charge is billed to the end user who is the subscriber to the Telephone Exchange Service or the agent of the pay telephone, except as set forth in (C)(3) and (4) preceding or in situations when such charges would be billed to an IC.

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.5 Provision of Access Service Billing Information

(A) The Customer shall select the medium in which its official access service bills and customer service records are to be provided. This selection shall be made on a per account basis and shall be submitted in writing to the Telephone Company. The Customer may request that access service billing information be provided via electronic data transfer, on-line bill image, or paper format. Should the Customer fail to make a selection, the official copy of the Customer's access service bills and customer service records will be provided in paper format. If a customer requests their access bill in multiple formats that includes the paper format, the paper format will be considered the additional or secondary format and will be charged according to 8.3.5 (D). (T) (T) (N) (N)

(B) At the Customer's option, additional copies of the current month's access service bill and/or customer service records will be provided via paper format at the charges specified in 8.3.5(D) following. Requests for additional copies of the current month's bill and/or customer service records must be submitted in writing and shall specify the medium selected by the Customer. (T) (T) (T)

Additional copies of a Customer's previous monthly access service bills will be provided via paper format on an individual case basis. Requests for additional copies of previous monthly bills must be submitted in writing and shall specify the bill dates requested and the medium in which the copies are to be provided. The charges for providing additional copies of previous monthly access service bills will be developed by the Telephone Company on an individual case basis. (T) (T) (T)

(C) Upon acceptance by the Telephone Company of an order for electronic data transfer, the Telephone Company will determine the period of time to implement the transmission of such material on an individual order basis.

(D) Upon acceptance by the Telephone Company of an order for the pm-line bill image format option, the Telephone Company will establish customer access to the Billing Account Number identified by the customer. The on-line bill image captures and retains invoices on a go-forward basis from the time of initial set-up. Previous bill history will not be available in the on-line bill image format prior to the establishment of the on-line bill image format option by the customer. (N) (N)

(D)
(D)

8. ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS CHARGES (Cont'd)

8.3 Miscellaneous Charges (Cont'd)

8.3.5 Provision of Access Service Billing Information (Cont'd)

(D) The rates and charges for the provision of Access Service Billing Information are as follows:

Additional copies of the Customer's monthly bill or service and features records (T)

- per copy per account in paper format (T)

	Monthly Rate	Nonrecurring Charge	
	$22.00	$22.00	(D)

(D)

(D)
(D)

ISSUED: July 23, 2001

EFFECTIVE: July 24, 2001

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES

9.1 General

This section sets forth the regulations and order related charges of Facilities 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.

9.1.1 Ordering Conditions

A Customer may order any number of services of the same type between the same locations on a single Facilities Access Order. All details for services for a particular order must be identical except for those for multipoint service.

Orders for Feature Group A Switched Access Service must specify the number of lines required.

Order for Feature Groups B, C, and D Switched Access Services must specify the number of trunks required. In addition, the order must indicate whether the Switched Transport ordered is for Entrance Facilities, Direct-Trunked Transport and/or Tandem-Switched Transport. For Direct-Trunked Transport, the order must specify the facility hubs involved, channel-type, channel interface, and any options desired.

Existing compatible FGD trunks will be converted to CCS7 at the Customer's request. If new (i.e., compatible) FGD trunks are required, the Telephone Company will provide these trunks where available. If compatible FGD trunks are not available at the time requested by the Customer, the Telephone Company will advise the Customer of the availability from its planning cycle.

For initiation, additions, changes or deletions to Interim 500 NXX or 500 Access Code(s), the Customer must place an order with the Telephone Company who provides 500 Translation. The Customer must also provide a copy of the order to the Telephone Companies subtending the 500 Access Translation office.

The Customer shall work cooperatively with the Telephone Company to determine the number of signaling connections required to handle its signaling traffic. CCS7 is offered where the capability exists.

Additionally, when Interim 500 and 900 Access Service optional feature(s) is ordered, the initial order shall specify the NXX code(s) to be translated within the entire LATA or Market Service Area. The initial and subsequent orders to add, change, or delete 500 or 900 Access Codes shall be placed separately or in combination with orders to change Feature Group C or D Switched Access trunks. Customer assigned NXX codes which have not been ordered will be blocked.

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES (Cont'd)

9.1 General (Cont'd)

9.1.1 Ordering Conditions (Cont'd)

For initiation, additions, changes or deletions to Interim 500 or 900 NXX or 500 or 900 Access code(s), the Customer must place an order with the Telephone Company who provides 500 or 900 translation. The Customer must also provide a copy of the order to the Telephone Companies subtending the 500 or 900 Access translation office.

The Telephone Company will make available upon Customer request a standard service interval table for Switched and Special Access Services. These tables and any associated relevant information will be made available to the Customer within a reasonable time of request, whether the Customer's service is subject to standard or negotiated intervals.

The Customer shall be required to supply all information necessary to provide service. This information includes customer name, address, telephone number, type of business entity, date of order, establishment of credit information, billing requirements information, contact person, date service to begin, specific location, quantity, type and description of service, election as to each service option under tariff, and special routing information.

For TFC Data Base Query Service, the Customer shall order in the same manner which is set forth preceding for ordering Feature Group D, except that Customers must request direct connections to those access tandems equipped with TFC Data Base Query Service Switching Point (TFC SSP) functionality, TFC SSP locations are indentified in the National Exchange Carrier Association, Inc. Tariff FCC No. 4. (T) (T)

9.1.2 Provision of Other Services

(A) Testing Service, Additional Labor, and Special Routing may be ordered with a Facilities Access Order as additional features for new facilities or as changes to existing services. 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) Customers may add items listed in 9.1.2(A) preceding to a pending order at anytime subject to the conditions of 9.2.2 following. However, a change in the service date, to be negotiated between the Customer and the Telephone Company, may be necessary to accommodate the request. When items listed in 9.1.2(A) preceding are added to a pending order, charges for order modification as set forth in 9.2.2 following will apply. (T) (T) (T) (T)

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES (Cont'd)

9.1 General (Cont'd)

9.1.2 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 Section 8.1 preceding and for Expedited Service orders. 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 percent.

The regulation, rates, and charges for Additional Engineering are as set forth in Section 8.1 preceding and are in addition to the regulations, rates and charges specified in this section.

9.1.3 Special Construction

The circumstances under which Special Construction is provided are described in Section 10. The regulations and charges for Special Construction are also set forth in Section 10 and are in addition to the regulations and charges specified in this section.

9.2 Facilities Access Order

Facilities Access Orders must be placed separately for each activation date for Switched and Special Access Services. For Switched Access Service, a separate order must be placed for each customer designated premises to end office facility.

For Special Access Service, separate orders must be placed for each customer designated premises.

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES (Cont'd)

9.2 Facilities Access Order (Cont'd)

For Line Information Data Base (LIDB) Access Service, the Customer shall provide a LIDB Access Service Request which specifies the originating point codes of the Customer's designated Operator Service Systems (OSSs) sending the query or queries, the PIU per originating point code (OPC) of the Customer's OSS location, and the desired due date of the order.

LIDB Access Service is provided in conjunction with CCS/SS7 Interconnection Access Service. The customer must arrange for CCS/SS7 Interconnection to the two Telephone Company interconnecting Signal Transfer Points (STPs) located in Johnson City, Tennessee and Bristol, Tennessee in order to utilize LIDB Access Service.

9.2.1 Facilities Access Order Charge

A nonrecurring charge will apply for receiving, recording and processing information necessary to execute a Customer's Facilities Access Order for Switched or Special Access Services.

One charge will apply for each order received. An order will included the request for all work to be performed or provided in connection with the Customer's facilities. If the Facilities Order is modified, charges as set forth in Section 9.2.2 apply.

At the time the Customer places a Facilities Access Order with the Telephone Company, the Customer will be informed that if the Facilities Access Order is cancelled prior to installation of access facilities, where installation of access facilities has commenced, a cancellation charge as set forth in Section 9.2.6(D) and 9.2.6(E) will apply.

Facilities Access Order Charge, per Order		
Switched *	Special	(T)
$10.00 (R)	$30.06	(C)

The Facilities Access Order charge does not apply when service arrangements are ordered prior to June 1, 1996 in connection with a Customer rerouting trunks from Tandem to end office or from end office to tandem transport.

The Facilities Access Order Charge does not apply when service arrangements ordered prior to April 1, 1996 in connection with a Customer rerouting trunks from tandem to end office or from end office to tandem transport, or when the installation of additional trunks is required for the rearrangement, as set forth in Section 4.6.1(C)(1).

* This flat rated charge was calculated based upon a 50/50 split between originating and terminating. The FCC in their FCC 11-161 ICC Transformation Order in Section 51.907(d)(1) allowed Price Cap Carriers to use an equal split to divide the charge between originating and terminating elements. When the terminating portion of the rate is reduced and then combined with the originating portion of the rate, a single flat rate is generated for billing purposes. (N) (N)

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES (Cont'd)

9.2 Facilities Access Order (Cont'd)

9.2.2 Facilities Access Order Modifications

The Customer may request a modification of its Facilities 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 orders 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 Facilities Access Order modification, the Telephone Company will schedule a new service date and will inform the Customer of which of the charges, set forth in this Section 9.2.2 will be imposed. All charges for Facilities Access Order modifications will apply on a per access order basis.

When Telephone Company personnel are dispatched to install a Customer's service on the requested service date, and the Customer advises the Telephone Company personnel that service cannot be accepted at that time, the Customer shall be responsible for payment of additional labor charges for the time incurred by Telephone Company personnel. The Additional Labor Charges will be applied on a per half-hour, per technician basis as set forth in13.2 following.

Any increase in the number of Special Access Service channels or Switched Access Service capacity or circuit quantities ordered will be treated as a new Facilities Access Order, as would a change in Feature Group type.

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

(A) Service Date Change Charge

Facilities Access Order service dates may be changed subject to the payment of a Service Date Change Charge. A Service Date Change Charge will apply for each service date changed. If the service date is changed to an earlier date, Additional Labor Charges, as set forth in Section 8, may also be required in addition to the Service Date Change Charge. The Telephone Company will not accept orders for service dates which exceed the applicable service date by more than six months.

The Customer may request a change of service date on a pending Access Order prior to the service date. A change of service date is a change of the scheduled service date by the Customer to either an earlier date or a later date, which does not exceed 60 calendar days from the original service date. (C)

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES (Cont'd)

9.2 Facilities Access Order (Cont'd)

9.2.2 Facilities Access Order Modifications (Cont'd)

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

If the Telephone Company determines that the Customer's request can be accommodated without delaying the service dates for orders of other Customers, the service date will be changed and the Service Date Change Charge applied to the order.

If the service date is changed to an earlier date, and the Telephone Company determines that Additional Labor, Additional Engineering, Additional Testing or Miscellaneous Charges are necessary to meet the earlier service date requested by the Customer, such charges will apply subject to the terms and conditions in Section 8 in addition to the Service Date Change Charge.

The Telephone Company will provide Customers with an estimate of charges to expedite an access order and the Telephone Company's actual charges therefore shall not exceed those estimated by more than 10%.

If the requested service date exceeds 60 calendar days following the original service date, and the Telephone Company determines that the Customer's request can be accommodated, the Telephone Company will cancel the original order and apply the Cancellation Charges as set forth in 9.2.6 following. A new access order with the new service date will be issued. The Service Date Change Charge will not apply. (C)

If the service date is changed due to a design change as set forth in (B) following, the Service Change Charge will apply. The Service Date Change Charge is:

Service Date Change Charge, per Order	
Switched *	Special
$0.00 (R)	$13.00

* This flat rated charge was calculated based upon a 50/50 split between originating and terminating. The FCC in their FCC 11-161 ICC Transformation Order in Section 51.907(d)(1) allowed Price Cap Carriers to use an equal split to divide the charge between originating and terminating elements. When the terminating portion of the rate is reduced and then combined with the originating portion of the rate, a single flat rate is generated for billing purposes.

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES (Cont'd)

9.2 Facilities Access Order (Cont'd)

9.2.2 Facilities Access Order Modifications (Cont'd)

(B) Design Change Charges

The Customer may request a design change to the service ordered. A design change is any change to a Facilities Access Order which requires engineering review. Engineering review is review by Telephone Company personnel of the service ordered and the requested change to determine what alterations in the design of the service are necessary to accommodate the change requested by the Customer. A design change may include the cancellation or addition of Optional Features and Functions and type terminations. It may not include a change of Access Connection interface Group or facility type, customer premises, end office switch, protocol or Feature Group type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate charges applied.

The Telephone company will review the requested change and notify the Customer whether the change can be accommodated. If the Customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge will apply. If, as a result of the change, the original service date cannot be met without the Telephone Company incurring additional labor, and the Customer provides authorization to the Telephone Company to proceed, then charges as set forth in Section 8 will apply. If the Customer is unwilling to pay such costs, the service date must be changed in accordance with 9.2.2(A) preceding as a result of the design change. The Design Change Charge is:

Design Change Charge, per Order		
Switched *	Special	(T)
$13.00	$13.00	(C)

9.2.3 Selection of Facilities for Facilities Access Orders

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 a Facilities Access Order. The Telephone Company will make a reasonable effort to accommodate the customer request. Facilities needed to satisfy Facilities Access Order requirements will be taken from available inventory based on forecasted demand on a first-come, first-served basis. Such inventory does not include facilities reserved specifically to satisfy the requirements of pending Facilities Access Orders.

* This flat rated charge was calculated based upon a 50/50 split between originating and terminating. The FCC in their FCC 11-161 ICC Transformation Order in Section 51.907(d)(1) allowed Price Cap Carriers to use an equal split to divide the charge between originating and terminating elements. When the terminating portion of the rate is reduced and then combined with the originating portion of the rate, a single flat rate is generated for billing purposes. (N) (N)

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES (Cont'd)

9.2 Facilities Access Order (Cont'd)

9.2.4 Minimum Period

(A) Except as set forth in (B) following and Sections 4.2.7, 4.6.2, 5.4.2 and 8.3.3(E)(1), (2) and (3), the minimum period for which access service is provided and for which charges are applicable, is one month. For the application of minimum period charges for Feature Groups C and D, the last identical capacity placed in service is considered the first one discontinued.

(B) The minimum period for Video Special Access Services offered at a daily rate is one day. 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).

9.2.5 Minimum Period Charges

When access service is discontinued prior to the expiration of the minimum period, charges are applicable for the remainder of the minimum period. Except as otherwise provided in this tariff, a disconnect constitutes facilities being returned to inventory.

The Minimum Period charge will be determined as follows:

(A) For Switched Access Service, the charge is equal to the applicable minimum monthly charge for the service as set forth in Section 4.6.

(B) For Special Access Service, the charge is the applicable monthly rate for the service as set forth in Section 5.

(C) The Minimum Period Charge for Video Services offered at a daily rate will be the applicable daily rate for the service as set forth in Section 5.

9.2.6 Cancellation of a Facilities Order

(A) The Customer may cancel a Facilities Access Order in whole or in part 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 or portion thereof is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. (C) (C)

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES (Cont'd)

9.2 Facilities Access Order (Cont'd)

9.2.6 Cancellation of a Facilities Order (Cont'd)

(A) The Customer may cancel … (Cont'd)

If a Customer or a Customer's end user is unable to accept access service within 30 calendar days of the latest agreed upon service date, the Customer has the choice of the following options:

- The Access Order will be canceled and charges set forth below will apply if the service has not been fully provisioned; or (C)

- The Access Order will be completed and billing for the service will commence if the service has been fully provisioned or the customer has indicated that billing for the service should begin. (C)

(D)

(D)

(B) Installation of Switched or Special Access Service facilities is considered to have started once the Firm Order Confirmation date has been provided to the customer.

(C) Where the Customer cancels a Facilities Access Order or portion thereof prior to the start of the installation of the access facilities cancelled, no charges shall apply.

(D) Where installation of access facilities which the Customer desires to cancel have started prior to the cancellation, a cancellation charge will apply.

(E) The Cancellation Charge will apply on a per order basis and is calculated as follows:

(1) If the Customer has requested a service date change beyond the original service date, the resulting additional installation days are included in the service interval.

(2) When counting the number of days in the service interval or the number of days from the latest agreed upon service date through the Access Order cancellation date, the latest agreed upon service date will count as day one.

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES (Cont'd)

9.2 Facilities Access Order (Cont'd)

9.2.6 Cancellation of a Facilities Order (Cont'd)

(E) The Cancellation Charge … is calculated as follows (Cont'd): (T)

(3) Except as set forth in (F) following, the cancellation charge will be a percentage of all nonrecurring charges associated with the access order, or that part of the order being canceled. This percentage is calculated by dividing the number of days from the Firm Order Commitment date through the cancellation date by the number of days in the agreed to service interval. The cancellation charge is then developed by multiplying the nonrecurring charges associated with installation of the canceled service by the calculated percentage. (T)

(F) The cancellation charge for OC3, OC12 or OC48 services without separate nonrecurring installation charges (i.e., OptiPoint Service) will be calculated as a percentage of the Optical Service Charge set forth in Section 4.7.6 preceding for each node associated with the canceled order. This percentage is calculated as specified in (E)(3) preceding. (T) (T)

(G) When a customer cancels an order for the discontinuance of service, no charges apply for the cancellation. (N) (N)

9. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICES (Cont'd)

9.2 Facilities Access Order (Cont'd)

9.2.7 Facilities Test and Line Up

(A) For Switched or Special Access Facilities, test and line up will be made by the Telephone Company using the customer facilities which are installed at the customer designated premises to terminate the capacity or services provided. The Customer shall provide personnel and equipment necessary to conduct the testing and line up and shall have its facilities available to complete the testing and line up during the period mutually agreed upon for testing. If customer personnel, equipment or facilities are not provided, and the service date is missed as a result, no Delayed Activation Credit, as set forth in Section 9.2.8, applies.

(B) Testing and line up as set forth in Section 9.2.7(A) may begin up to thirty (30) days prior to the scheduled service date. The Telephone Company will notify the Customer of the scheduled start date at least ten working days prior to such date. If this date is mutually agreeable, the Telephone Company will begin testing on the scheduled date. If this date is not agreeable to the Customer and a later date is agreed upon, no Delayed Activation Credit will apply if the facilities are not available on the service date.

9.2.8 Delayed Activation Credit

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

9.2.9 Discontinuation of Service

Customers must give the Telephone company written notice twenty-four (24) hours before the date on which service is to be discontinued. No charges will apply after the requested disconnect date except as defined for minimum periods in Section 2.4.2.

9.2.10 Access Orders for Services Provided by More Than One Telephone Company

Access Services provided by more than one Telephone Company are services where one end of the Switched Transport or Special Access Channel Mileage element is in the operating territory of one Telephone Company an the other end of the element is in the operating territory of a different Telephone Company.

The ordering, rating and billing procedures for this service are specified in Section 2.4.4 of this tariff.

9.3 Reserved For Future Use

ISSUED: July 23, 2001

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10. SPECIAL CONSTRUCTION

10.1 General

This section addresses Special Construction of Telephone Company facilities that are used to provide services offered under this tariff except for those offered in Section 7.

The Telephone Company will notify the Customer in writing when Special Construction is required. The notice will contain an explanation of the reasons requiring Special Construction and an estimate of the costs of such construction. When Special Construction is required, a charge will be made for the cost of the Special Construction. In those cases when a Maximum Termination Liability Charge for the Special Construction applies, the terms and conditions in Section 10.3 will apply.

When Special Construction of facilities is required, the provisions of this section apply in addition to regulations, rates and charges set forth in other sections of this tariff.

10.2 Conditions Requiring Special Construction

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

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

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

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

- The Customer requests construction be expedited resulting in added cost to the Telephone Company.

10.3 Maximum Termination Liability and Termination Charge

A Maximum Termination Liability is equal to the nonrecoverable costs associated with specially constructed facilities and is the maximum amount which could be applied as a Termination Charge if all specially constructed facilities were discontinued before the Maximum Termination Liability expires.

The liability period is equal to the average life of the account associated with the specially constructed facilities. The liability period is generally expressed in terms of an effective and expiration date.

10. SPECIAL CONSTRUCTION (Cont'd)

10.3 Maximum Termination Liability and Termination Charge (Cont'd)

The Maximum Termination Liability is filed with the initial tariff filing in decreasing amounts at ten-year intervals over the average account life of the facilities. In the event that the average account life of the facilities is not an even multiple of ten, the last increment will reflect the appropriate number of years remaining.

Example Illustrative a 27-Year Average Account Life:

Maximum Termination Liability	Effective Date	Expiration Date
$10,000	6/1/84	6/1/94
7,000	6/1/94	6/1/04
3,000	6/1/04	6/1/11

Prior to the expiration of each liability period, the Customer has the option to (A) terminate the Special Construction case and pay the appropriate charges, or (B) extend the use of the specially constructed facilities for the new liability period.

The Telephone Company will notify the Customer six months in advance of the expiration date of each ten-year liability period. The Customer must provide the Telephone Company with written notification at least 30 days prior to the expiration of the liability period if termination is elected. Failure to do so will result in an automatic extension of the Special Construction case to the next liability period at the filed Maximum Termination Liability amount.

A Termination Charge may apply when all services using the specially constructed facilities which have a tariffed Maximum Termination Liability are discontinued prior to the expiration of the liability period. The charge reflects the unamortized portion of the nonrecoverable costs at the time of termination, adjusted for net salvage and possible reuse. Administrative costs associated with the special case of Special Construction and any cost for restoring a location to its original condition are also included. A Termination Charge may never exceed the filed Maximum Termination Liability.

A partial termination of specially constructed facilities will be provided, at the election of the Customer. The amount of the Termination Charge associated with such partial termination is determined by multiplying the termination charge which would result if all services using the specially constructed facilities were discontinued, at the time partial termination is elected, by the percentage of specially constructed facilities to be partially terminated. A tariff filing will be made following a partial termination to list remaining Maximum Termination Liability amounts and the number of specially construction facilities the Customer will remain liable for.

Example:

A Customer with a filed Maximum Termination Liability of $100,000 for 3,600 specially constructed facilities requests a partial termination of 900 facilities. The Termination charge for all facilities, at the time of election, if $60.000. The partial termination charge, in this example, is $60,000 x 900/3600, or $15,000.

10. SPECIAL CONSTRUCTION (Cont'd)

10.3 Maximum Termination Liability and Termination Charge (Cont'd)

Annual Underutilization Liability and Underutilization Charge:

Prior to the start of special construction, the Telephone Company and the Customer will agree on (1) the quantity of facilities to be provided, and (2) the length of the planning period during which the Customer expects to place the facilities in service. The planning period is hereinafter referred to as the Initial Liability Period (ILP). The ILP is listed in the tariff with an effective and expiration date.

Underutilization occurs only if, at the expiration date of the ILP and annually thereafter, less than 70 percent of the specially constructed facilities are in service at filed tariff service rates.

An annual underutilization liability amount is filed on a per unit basis (e.g., per cable pair) for each case of Special Construction. This amount is equal to the annual per unit cost and includes depreciation, maintenance, administration, return, taxes and any other costs identified in the supporting documentation provided at the time the Special Construction case is filed.

Upon the expiration of the ILP, the number of underutilized facilities, if any, are multiplied by the annual underutilization liability amount. This product is then multiplied by the number of years (including any fraction thereof) in the ILP to determine the underutilization charge.

Annually thereafter, the number of underutilized facilities, if any, existing on the anniversary of the ILP expiration date will be multiplied by the annual underutilization liability amount to determine the underutilization charge for the preceding 12-month period.

Example

A Customer orders 100 services and the Special Construction of a 600 pair building riser cable is agreed to, based on the Customer's 5-year facility requirements. The ILP, in this example, would be filed at 5 years. The annual underutilization liability is filed at $2.00 per pair. If 400 pairs were in service at the end of the ILP, there would be an underutilization of 20 pairs, i.e., 420 (70% of 600) – 400 = 20. The total underutilization charge for the first years would be $200.00, or $2.00 per pair x 20 pairs x 5 years.

If 400 pairs are in service at the end of the 6th year, there is no underutilization, i.e., 420 – 420 = 0.

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11. 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 4; Voice Grade Special Access Service as set forth in Section 5.2.1(B) and Special Federal Government Access Service as set forth in Section 12. Cable-Only Facilities are available for Switched Access Service as set forth in Section; Voice Grade Special Access Services as set forth in 5.2.1(B) and Special Federal Government Access Services as set forth in Section 12.

In order to avoid special routing compromise, the Telephone Company will provide the ordering Customer with the routing information for each specially routed service. If requested by the Customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

11. SPECIAL FACILITIES ROUTING OF ACCESS SERVICES (Cont'd)

11.1 Description of Special Facilities Routing of Access Services (Cont'd)

The rates and charges for Special Facilities Routing of Access Services as set forth in Section 11.2 are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

11.2 Rates and Charges for Special Facilities Routing of Access Services

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 Section 11.1.1, the rates and charges will be developed on an individual case basis.

11.2.2 Avoidance

For each service provided in accordance with Section 11.1.2 the rates and charges will be developed on an individual case basis.

11.2.3 Diversity and Avoidance Combined

For each service provided in accordance with Sections 11.1.1 and 11.1.2 combined, the rates and charges will be developed on an individual case basis.

11.2.4 Cable-Only Facilities

For each service provided in accordance with Section 11.1.3, the rates and charges will be developed on an individual case basis.

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12. SPECIAL FEDERAL GOVERNMENT SERVICES

12.1 General

This section covers Special Access Services that are provided to a Customer for use only by agencies or branches of Federal Government and other users authorized by the Federal Government, including state or local emergency operations centers. 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 the 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.

12.2 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 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

12. SPECIAL FEDERAL GOVERNMENT SERVICES (Cont'd)

12.3 Intervals to Provide Service

Services provided under the provisions of this section are provided on an individual case basis.

12.4 Availability of Facilities

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.

12.5 Federal Government Regulations

In accordance with Federal Government Regulations, all service provided directly to the Federal Government will be billed in arrears. This provision does not apply to other Customers that obtain services under the provisions of this tariff to provide service to the Federal Government.

12.6 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, authorized users and state emergency operation 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.

12. SPECIAL FEDERAL GOVERNMENT SERVICES (Cont'd)

12.6 Service Offerings to the Federal Government (Cont'd)

12.6.1 Type and Description

(A) **Voice Grade Special Access Services** [1] (C)

(1) Voice Grade Secure Communications Type I

The approximate bandwidth of this type of service is 10-50,000 Hz. It is furnished for two-point secure communications on two-wire or four-wire metallic facilities between customer designated premises. Services are conditioned as follows:

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 is 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.

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

12. SPECIAL FEDERAL GOVERNMENT SERVICES (Cont'd)

12.6 Service Offerings to the Federal Government (Cont'd)

12.6.1 Type and Description (Cont'd)

(A) **Voice Grade Special Access Services** [1] (Cont'd) (C)

(2) Voice Grade Secure Communications Type II

The approximate bandwidth of this type of service is 10-50,000 Hz. It is furnished on four-wire metallic facilities for duplex operation for two-point secure communication between customer designated premises and an End User's premises. 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.

(3) Voice Grade Secure Communications Type III

The approximate bandwidth of this type of service is 10-50,000 Hz. It is furnished on four-wire metallic facilities for duplex operation for two-point secure communication between customer designated premises. Services are conditioned as follows:

G-2 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.

(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 communications between two customer designated 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) Reserved For Future Use

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

12. SPECIAL FEDERAL GOVERNMENT SERVICES (Cont'd)

12.6 Service Offerings to the Federal Government (Cont'd)

12.6.1 Type and Description (Cont'd)

(C) Special Routing Access Service

Special Routing Access Service is furnished only to AT&T for an agency or branch of the Federal Government. This service provides the Customer's end users the ability to originate and terminate calls to or from the customer premises utilizing a Special Routing Plan.

This service is an optional service which operates in conjunction with Trunk Side Premium Access Service furnished to AT&T under other provisions of this tariff.

Rates and Charges for Special Routing Access Service will be provided on an individual case basis.

12.6.2 Mileage Application

Mileage for rate application is the airline distance measured between the service terminating points.

12.6.3 Rates and Charges

(A) **Voice Grade Special Access Service** [1] (C)

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 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	Monthly Rates	Nonrecurring Charges	Termination Charges
Type I, each T-3 Conditioning	ICB rates and charges apply		
Additional Conditioning, per channel termination	ICB rates and charges apply		
Type II, each G-1 Conditioning	ICB rates and charges apply		
Type III, each G-2 Conditioning	ICB rates and charges apply		
Type IV, each G-3 Conditioning	ICB rates and charges apply		

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

12. SPECIAL FEDERAL GOVERNMENT SERVICES (Cont'd)

12.6 Service Offerings to the Federal Government (Cont'd)

12.6.3 Rates and Charges (Cont'd)

(B) Reserved For Future Use

(C) Move Charges

When a service requiring T-3 conditioning, T-3 additional conditioning or a service requiring G-Conditioning as set forth in Section 12.6.3(A) is moved to a different building or to a new location in the same building, the nonrecurring charge applies.

When any service, for which a termination charge is specified, is moved and is installed at a new location, the Customer may elect:

(1) to pay the unexpired portion of the termination charge for the service, if any, with the application of a nonrecurring charge and the establishment of a new termination charge for such service at the new location, or

(2) 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.

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, taxes and any other specific items of cost directly attributable to the move.

(D) Special Assembly Packages

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13. MILEAGE MEASUREMENT AND SERVICE WIRE CENTER V & H COORDINATES

This Page is Reserved For Future Use

14. CARRIER COMMON LINE ACCESS SERVICE

The Telephone Company will provide Carrier Common Line Access Service (Carrier Common Line Access) to customers in conjunction with Switched Access Service provided in Section 4 of this tariff. (N)

14.1 General

Carrier Common Line Access provides for the use of end users' Telephone Company provided common lines by customers for access to such end users to furnish Intrastate Communications. (C)

Premium Access is (1) Switched Access Service provided to customers under this tariff which furnish intrastate MTS/WATS, or (2) Switched Access Service in an end office converted to equal access.

Non Premium Access is Switched Access Service provided in an end office not yet converted to equal access to customers that do not furnish intrastate MTS/WATS.

A Special Access Surcharge will apply to intrastate special access service provided by the Telephone Company to a customer, in accordance with regulations as set forth in Section 5.4.6 preceding.. (C)

14.2 Limitations (C)

14.2.1 Exclusions (N)

Neither a telephone number nor detail billing are provided with Carrier Common Line Access. Additionally, directory listings and intercept arrangements are not included in the rates and charges for Carrier Common Line Access. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.2 Limitations (Cont'd)

14.2.2 Access Groups

All line side connections provided in the same access group will be limited to the same features and operating characteristics.

All trunk side connections provided in the same access group will be limited to the same features and operating characteristics.

14.2.3 WATS Special Access Circuits

Where Special Access Services are utilized for connection with Switched Access Services at Telephone Company designated WATS Serving Offices for the provision of WATS or WATS-like services, Switched Access Service minutes which are carried on that end of the service (i.e., originating minutes for outward WATS and WATS-like services and terminating minutes for inward WATS and WATS-like services) shall not be assessed Carrier Common Line Access per minute charges with the following exception. Carrier Common Line Access per minute charges shall apply when Feature Group A or Feature Group B switched access is ordered from a non equal access Telephone Company office that does not have measurement capabilities and the assumed access minutes of use monthly surrogates, as set forth in 4.6.8 following are used.

14.3 Undertaking of the Telephone Company

14.3.1 Provision of Service

Where the customer is provided 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 14.9 following. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.3 Undertaking of the Telephone Company (Cont'd)

14.3.2 Interstate and Intrastate Use

The Switched Access Service provided by the Telephone Company includes the Switched Access Service provided for both interstate and intrastate communications. The Carrier Common Line Access rates and charges as set forth in 14.9 following apply to intrastate Switched Access Service access minutes in accordance with the rate regulations as set forth in 14.8.4 following (Percent Interstate Use - PIU).

14.4 Obligations of the Customer

14.4.1 Switched Access Service Requirement

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

14.4.2 Supervision

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

14.5 Determination of Usage Subject to Carrier Common Line Access Charges

Except as set forth herein, all Switched Access Service provided to the customer will be subject to Carrier Common Line Access charges.

14.5.1 Determination of Jurisdiction

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 14.8.4 following (Percent Interstate Use-PIU). (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.5 Determination of Usage Subject to Carrier Common Line Access Charges (Cont'd)

14.5.2 Cases Involving Usage Recording By the Customer

Where Feature Group C end office switching is provided without Telephone Company recording and the customer records minutes of use used to determine Carrier Common Line Access charges (i.e., Feature Group C operator and calls such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls), the customer shall furnish such minutes of use detail to the Telephone Company in a timely manner. If the customer does not furnish the data, the customer shall identify all Switched Access Services which could carry such calls in order for the Telephone Company to accumulate the minutes of use through the use of special Telephone Company measuring and recording equipment.

14.5.3 Local Exchange Access and Enhanced Services Exemption

When access to the local exchange is required to provide a customer's service (e.g., MTS/WATS-like, telex, data, etc.) that uses a resold private line service, Switched Access Service Rates and Regulations, as set forth in Section 4 preceding will apply, except when such access to the local exchange is required for the provision of an enhanced service. Carrier Common Line Access rates and charges as set forth in 14.9 following apply in accordance with the resale rate regulations as set forth in 14.6.4 following.

14.6 Resold Services

14.6.1 Scope

Where the customer is reselling MTS and/or MTS-like service(s) on which the Carrier Common Line and Switched Access charges have been assessed, the customer may, at the option of the customer, obtain Feature Group A, Feature Group B or Feature Group D Switched Access Service under this tariff, as set forth in Section 4 preceding, for originating and/or terminating access in the local exchange. Such access group arrangements, whether single lines or trunks or multiline hunt groups or trunk groups, will have Carrier Common Line Access charges applied as set forth in 14.9 following in accordance with the resale rate regulations set forth in 14.6.4 following. For purposes of administering this provision: (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.6 Resold Services (Cont'd)

14.6.1 Scope (Cont'd)

Resold intrastate terminating MTS and MTS-like service(s) shall include collect calls, third number calls, and credit card calls where the reseller pays the underlying carrier's service charges; and shall not include interstate minutes of use.

Resold intrastate originating MTS and MTS-like service(s) shall not include collect, third number, credit card, or interstate minutes of use.

14.6.2 Customer Obligations Concerning the Resale of MTS and MTS-like Services

When the customer is reselling MTS and/or MTS-like service as set forth in 14.6.1 preceding, the customer will be charged Carrier Common Line Access charges in accordance with the resale rate regulations, as set forth in 14.6.4 following, if the customer or the provider of the MTS service furnishes documentation of the MTS usage and/or the customer furnishes documentation of the MTS-like usage. Such documentation provided by the customer shall be supplied each month and shall identify the involved resold MTS and/or MTS-like services.

The monthly period used to determine the minutes of use for resold MTS and/or MTS-like service(s) shall be the most recent monthly period for which the customer has received a bill for such resold service(s). This information shall be delivered to the Telephone Company, at a location specified by the Telephone Company, no later than 15 days after the bill date shown on the resold MTS and/or MTS-like service bill. If the required information is not received by the Telephone Company, the previously reported information, as described preceding, will be used for the next two months. For any subsequent month, no allocation or credit will be made until the required documentation is delivered to the Telephone Company by the customer.

14.6.3 Resale Documentation Provided By the Customer

When the customer utilizes Switched Access Service as set forth in 14.6.2 preceding, the Telephone Company may request a certified copy of the customer's resold MTS or MTS-like usage billing from either the customer or the provider of the MTS or MTS-like service. Requests for billing will relate back no more than 12 months prior to the current billing period. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.6 Resold Services (Cont'd)

14.6.4 Rate Regulations Concerning the Resale of MTS and MTS-like Services

When the customer is provided an access group to be used in conjunction with the resale of MTS and/or MTS-like services as set forth in 14.6.1 preceding, subject to the limitations as set forth in 14.2 preceding, and the billing entity receives the usage information required as set forth in 14.6.2 preceding, to calculate the adjustment of Carrier Common Line Access charges, the customer will be billed as set forth in (D), (E), or (F) following, depending upon, respectively, whether the usage is from non equal access offices, equal access offices, or a combinations of the two.

(A) Apportionment and Adjustment of Resold Minutes of Use

When the customer is provided with more than one access group in a LATA in association with the resale of MTS and/or MTS-like services, the resold minutes of use will be apportioned as follows:

(1) Originating Services

The Telephone Company will apportion the resold originating MTS and/or MTS-like services and originating minutes of use for which the resale credit adjustment applies, among the access groups. Such apportionment will be based on the relationship of the originating usage for each access group to the total originating usage for all access groups in the LATA. For purposes of administering this provision:

Resold originating MTS and/or MTS-like services minutes shall be only those attributable to intrastate originating MTS and/or MTS-like minutes and shall not include collect, third number, credit card, or interstate minutes of use.

The resale credit adjustment shall apply for resold originating MTS and MTS-like services and minutes of use, provided Carrier Common Line and Switched Access Charges have been assessed on such services. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.6 Resold Services (Cont'd)

14.6.4 Rate Regulations Concerning the Resale of MTS and MTS-like Services (Cont'd)

(A) Apportionment and Adjustment of Resold Minutes of Use (Cont'd)

(2) Terminating Services

The Telephone Company will apportion the resold terminating MTS and/or MTS-like services and terminating minutes of use for which the resale credit adjustment applies, among the access groups. Such apportionment will be based on the relationship of the terminating usage for each access group to the total terminating usage for all access groups in the LATA. For purposes of administering this provision:

Resold terminating MTS and/or MTS-like services minutes shall be only those attributable to intrastate terminating MTS/MTS-like (i.e., collect calls, third number calls, and credit card calls) and shall not include interstate minutes of use or MTS/MTS-like minutes of use paid for by another party.

The resale credit adjustment shall apply for resold terminating MTS and MTS-like services and minutes of use, provided Carrier Common Line and Switched Access Charges have been assessed on such services.

(B) Same State/Telephone Company/Exchange Limitation

In order for the rate regulations to apply as set forth in (D), (E), or (F) following, the access groups and the resold MTS and/or MTS-like services must be provided in the same state (except when the same extended area service arrangement is provided in two different states by the same telephone company) in the same exchange, provided by the same Telephone Company and connected directly or indirectly. For those exchanges that encompass more than one state, the customer shall report the information by state within the exchange. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.6 Resold Services (Cont'd)

14.6.4 Rate Regulations Concerning the Resale of MTS and MTS-like Services (Cont'd)

(C) Direct and Indirect Connections

Each of the access group arrangements used by the customer in association with the resold MTS and/or MTS-like services must be connected either directly or indirectly to the customer designated premises at which the resold MTS and/or MTS-like services are terminated. Direct connections are those arrangements where the access groups and resold MTS and/or MTS-like services are terminated at the same customer designated premises.

Indirect originating connections are those arrangements where the access groups and the resold originating MTS and/or MTS-like services are physically located at different customer designated premises in the same exchange. Such different customer designated premises are connected by facilities that permit a call to flow from access groups to resold MTS and/or MTS-like services.

Indirect terminating connections are those arrangements where the access groups and resold terminating MTS and/or MTS-like services are physically located at different customer designated premises in the same exchange. Such different customer designated premises are connected by facilities that permit a call to flow from resold terminating MTS and/or MTS-like services to access groups.

(D) Access Groups - Non Equal Access Offices Only

The adjustments, as set forth here and in (E) and (F) following, will be computed separately for each access group.

When all the usage on an access group originates from and/or terminates at end offices that have not been converted to equal access, the Non Premium Access Charge per minute as set forth in 14.9(B) following will apply. The access minutes which will be subject to Carrier Common Line Access charges will be the adjusted originating intrastate access minutes plus the adjusted terminating intrastate access minutes for such access groups. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.6 Resold Services (Cont'd)

14.6.4 Rate Regulations Concerning the Resale of MTS and MTS-like Services (Cont'd)

(D) Access Groups - Non Equal Access Offices Only (Cont'd)

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold originating MTS and/or MTS-like service minutes of use as set forth in (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold terminating MTS and/or MTS-like service minutes of use as set forth in (A)(2) preceding; but not less than zero.

(E) Access Groups - Equal Access Offices Only

When all the usage on an access group originates from and/or terminates at end offices that have been converted to equal access, the Premium Access Charge per minute as set forth in 14.9(A) following will apply. The minutes billed Carrier Common Line Access Service charges will be the adjusted originating intrastate access minutes and the adjusted terminating intrastate access minutes for such access groups.

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold originating MTS and/or MTS-like service minutes of use as set forth in (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold terminating MTS and/or MTS-like service minutes of use as set forth in (A)(2) preceding; but not less than zero.

(F) Access Groups - Non Equal Access and Equal Access Offices

When an access group has usage that originates from and/or terminates at both end offices that have been converted to equal access and end offices that have not been converted, both Premium and Non Premium per minute charges as set forth in 14.9(A) and (B) following will apply, respectively. The minutes billed Carrier Common Line Access Service charges will be the adjusted originating intrastate access minutes plus the adjusted terminating intrastate access minutes for such access groups. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.6 Resold Services (Cont'd)

14.6.4 Rate Regulations Concerning the Resale of MTS and MTS-like Services (Cont'd)

(F) Access Groups - Non Equal Access and Equal Access Offices (Cont'd)

The adjusted originating access minutes will be the originating interstate access minutes less the reported resold originating MTS and/or MTS-like service minutes of use as set forth in (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating interstate access minutes less the reported resold terminating MTS and/or MTS-like service minutes of use as set forth in (A)(2) preceding; but not less than zero.

The adjusted originating access minutes and the adjusted terminating access minutes will be apportioned between premium and non premium access minutes using end office specific usage data when available, or when usage data are not available, the premium and non premium ratios developed as set forth in 4.6.13. The Premium and Non Premium per minute charges set forth in 14.9 following will apply to the respective premium and non premium access minutes determined in this manner.

(G) When the Adjustment Will Be Applied to Customer Bills

The adjustment set forth in (D), (E), and (F) preceding will be made to the involved customer account no later than either the next bill date or the one subsequent to that, depending on when the usage report is obtained.

(H) Conversion of Billed Usage to Minutes

When the MTS and/or MTS-like usage is shown in hours, the number of hours shall be multiplied by 60 to develop the associated MTS and/or MTS-like minutes of use. If the MTS and/or MTS-like usage is shown in a unit that does not show hours or minutes, the customer shall provide a factor to convert the shown units to minutes.

(N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.6 Resold Services (Cont'd)

14.6.4 Rate Regulations Concerning the Resale of MTS and MTS-like Services (Cont'd)

(I) Percent Interstate Use (PIU)

The adjustment set forth in (D), (E) and (F) preceding will be made to the involved customer account after making the adjustments to the customer account as set forth in 14.8.4 following (PIU).

14.7 Reserved For Future Use

14.8 Rate Regulations

14.8.1 Billing of Charges

Carrier Common Line charges will be billed to each Switched Access Service provided under this tariff in accordance with the regulations as set forth in 14.8.5 following (Determination of Premium and Non Premium Charges) except as set forth in 14.6.4 preceding (Resale) and 14.8.4 following (PIU).

14.8.2 Measuring and Recording of Call Detail

When access minutes are used to determine Carrier Common Line charges, they will be accumulated using call detail recorded by Telephone Company equipment except as set forth in 14.8.3 following (Unmeasured FGA and B Usage) and Feature Group C operator and automated operator services systems 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 14.8.3 following (Unmeasured FGA and B Usage), 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 on a line by line basis, by line group or by end office, whichever type of account is used by the Telephone Company, for each customer and then rounded to the nearest minute. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.8 Rate Regulations (Cont'd)

14.8.3 Unmeasured Feature Group A and B Usage

When Carrier Common Line Access is provided in association with Feature Group A or Feature Group B Switched Access Service in Telephone Company offices that are not equipped for measurement capabilities, an assumed intrastate access minutes of use monthly surrogate, as set forth in Section 4.6.8 preceding, will be used to determine Carrier Common Line Access charges.

14.8.4 Percent Interstate Use (PIU)

When the customer reports interstate and intrastate use of in-service Switched Access Service, Carrier Common Line charges will be billed only to intrastate Switched Access Service access minutes based on the data reported by the customer as set forth in 2.3.11 preceding (Jurisdictional Reports), except where the Telephone Company is billing according to actuals by jurisdiction. Intrastate Switched Access Service access minutes will, after adjustment as set forth in 14.6.4 preceding (Resale), when necessary, be used to determine Carrier Common Line Charges as set forth in 14.8.5 following.

14.8.5 Determination of Premium and Non Premium Charges

After the adjustments as set forth in 14.6.4 and 14.8.4 preceding have been applied, when necessary, to Switched Access Service access minutes, charges for the involved customer account will be determined as follows:

(A) Access minutes for all premium rated Switched Access Service subject to Carrier Common Line charges will be multiplied by the Premium Access per minute rate as set forth in 14.9 following. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.8 Rate Regulations (Cont'd)

14.8.5 Determination of Premium and Non Premium Charges (Cont'd)

(B) Access minutes for all non premium rated Switched Access Service subject to Carrier Common Line charges will be multiplied by the Non Premium Access per minute rate as set forth in 14.9 following.

(C) Carrier Common Line charges shall not be reduced as set forth in 14.6.1 preceding unless Switched Access Charges, as set forth in Section 4 preceding, are applied to the customer's Switched Access Services.

(D) Terminating Premium Access or Non Premium Access, per minute charge(s) apply to:

- all terminating access minutes of use;

- all originating access minutes of use associated with FGA Access Services where the off-hook supervisory signaling is forwarded by the customer's equipment when the called party answers;

- all originating access minutes of use associated with calls placed to 700, Toll Free Code (TFC) and 900 numbers, less the percentage of originating access minutes of use reported by the customer, as set forth following, that are associated with calls placed to 700, TFC and 900 numbers that terminate in a Switched Access Service that is assessed Carrier Common Line charges. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd) (N)

14.8 Rate Regulations (Cont'd)

14.8.5 Determination of Premium and Non Premium Charges (Cont'd)

(D) (Cont'd)

For originating access minutes of use associated with calls placed to 700, TFC and 900 numbers which terminate on a Switched Access Service assessed Carrier Common Line charges, the customer shall report as follows: Effective on the first of January, April, July and October of each year, the customer shall provide a revised report of the percentage of total interstate 700, TFC and 900 originating minutes of use that terminate in a Switched Access Service assessed Carrier Common Line charges. The customer shall forward the revised report to the Telephone Company, to be received no later than 15 days after the first of each such month (i.e., January, April, July and October). The revised report will serve as the basis for the next three months billing (i.e., beginning the first of February, May, August and November) and will be effective on the customer's bill date for that service. No prorating or backbilling will be done based on the report. In the event the customer does not supply a report, the Telephone Company will assume the percentage to be the same as that provided in the previous quarterly report.

If a billing dispute arises concerning the customer provided report, the Telephone Company will request that the customer provide the data the customer used to determine the percentage. The customer shall keep records from which the reported percentage can be ascertained. The Telephone company will not request such data more than once a year. Upon request by the Telephone Company, the customer shall make records available for inspection as are reasonably necessary for purposes of verification of the percentages and shall supply the data within 30 days of the Telephone Company request.

For those cases in which a report has never been received from the customer, the terminating premium access or non premium access per minute charges will apply to all 700, Toll Free Code and 900 calls. (N)

14. CARRIER COMMON LINE ACCESS SERVICE (Cont'd)

14.8 Rate Regulations (Cont'd)

14.8.5 Determination of Premium and Non Premium Charges (Cont'd)

(E) Originating Premium Access or Non Premium Access, per minute charge(s) apply to all originating access minutes of use;

- less those originating access minutes of use associated with FGA Access Services where the off-hook supervisory signaling is forwarded by the customer's equipment when the called party answers;

- less all originating access minutes of use associated with calls placed to 700, TFC and 900 numbers;

- plus all originating access minutes of use associated with calls placed to 700, TFC and 900 numbers for which the customer furnishes a report of the percentage of minutes that terminate in a Switched Access Service that is assessed Carrier Common Line charges, and for which a corresponding reduction in the number of terminating access minutes of use has been made as set forth in (D) preceding.

14.9 Rates and Charges

The rate for Carrier Common Line Access is:

	Rate Per Access Minute		
Originating	$0.000000	(R)	(C)
Terminating	$0.000000	(R)	(C)

15. OPERATOR SERVICES [1] (C)

15.1 Operator Services Description

Operator Services includes the service category of Operator Transfer. Operator Transfer is provided from OSS Tandems to the Customer's premises in conjunction with the rules and regulations of the specified Access Services found in Sections 2, 4, 9, and 14 preceding. Operator Services are available at all Telephone Company end offices, however may be unavailable in certain LATAs due to existing trunking arrangements. In locations where the provider of Operator Services is not the Telephone Company, availability of Operator Services is at the discretion of the Operator Services provider. If Operator Services are available, the Telephone Company rates are applicable and billed by the Telephone Company. In locations where the Telephone Company is the provider of Operator Services for other telephone companies, availability of Operator Services is contingent on the availability of Operator Services tariffs of that telephone company. The OSS Tandem locations are provided in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. (C) (C)

15.1.1 Operator Transfer Service (OTS)

Operator Transfer is an originating service that provides call routing of 0- (the digit "0" with no additional digits) calls to a participating Customer as requested by the calling end user. An Operator Transfer call is routed to the Telephone Company's OSS operator for completion to a destination outside the originating LATA when the calling party dials "0" and waits for an operator to assist with the call. The Telephone Company operator will, upon request, transfer the call to the calling end user's participating Customer (i.e., the Telephone Company's Operator Transfer Service Customer) of choice. If the calling end user has no specific customer preference, the OSS operator will consult reference information and offer to the calling party the name of a participating Customer. The reference information is arranged to give all participating Customers and equal opportunity of being offered to and chosen by the calling end user. After a selection is made by the calling end user, the operator will then key in the selected Customer's Carrier Identification Code (CIC) and transfer the call.

(D)

(D)

[1] Effective November 7, 2016, Operator Inward Assistance (OIA) Service (Busy Line Verify and Verification with Call Interrupt) is discontinued. (N) (N)

15. OPERATOR SERVICES (Cont'd)

(D)

(D)

15.2 Manner of Provisioning

(A) Operator Services trunking between the Customer's premises and the OSS Tandem is provisioned as either Switched Access Feature Group B, Feature Group C, or Feature Group D service and may be arranged, per the Customer's request, as either 1-way or 2-way service. These trunk groups are established as final trunks and will be assigned data registers to obtain usage, peg count, and overflow attempt information. If a trunk(s) does not currently exist between the Customer's premises and the OSS Tandem(s), the Customer must establish Feature Group B or Feature Group D service to the Telephone Company's OSS Tandem(s). The Telephone Company will provide trunk side switching along with trunk answer and disconnect supervisory signaling to the Customer.

(B) When the OSS Tandem also functions as the Message Toll Service (MTS) Access Tandem, the Customer may combine Operator Services traffic with its MTS Switched Access traffic between the OSS Tandem and the Customer's premises provided the trunk group has the same signaling and routing requirements as specified for Operator Transfer. However, Operator Services traffic may not be combined with MTS Switched Access traffic if the Customer provides operator functionality or coin station control. (C)

15. OPERATOR SERVICES (Cont'd)

15.2 Manner of Provisioning (Cont'd)

15.2.1 Operator Transfer

(A) The Customer must order sufficient capacity between the OSS Tandem(s) and the Customer's premises to serve Operator Transfer traffic originating from those end offices. The Telephone Company OSS Tandems send 10-digit ANI (NPA + 7-digit telephone number) for Feature Group D trunk groups with Equal Access Signaling or Operator Services Address Signaling and Feature Group C trunk groups with Traditional Signaling. However, the Telephone Company OSS Tandems send 7-digit ANI for Feature Group C trunk groups with Operator Services signaling. Therefore, if the Customer requires Operator Transfer calls separately identified by the originating NPA for the Feature Group C trunk group with Operator Services signaling, the Customer must utilize a separate and final trunk group, from the OSS Tandem to their Customer's premises, for each NPA served by that OSS Tandem.

(B) In order for the Customer to provide full operator functionality (e.g., Operator Recall, Sequence Dialing, Time and Charge Quotation, and Emergency Ringback) or coin station control, the Customer must order Operator Trunk-Coin, Non-Coin, or Combined Coin and Non-Coin for Feature Group C service or Operator Trunk - Full Feature for Feature Group D service. Full operator functionality is not required to provide Operator Transfer Service. When coin station control is provided, the Customer must establish a separate and final trunk group for each type of end office operator/coin station signaling (i.e., inband, expanded inband, and multiwink) existing in the end offices served by the OSS Tandem. Operator Transfer is not available for coin sent-paid traffic.

15.2.2 Signaling

For Operator Transfer, the Telephone Company will provide Traditional Signaling for Feature Group B or Feature Group C service or Equal Access Signaling for Feature Group D service. Customers providing operator functionality for operator traffic or coin control for pay telephone traffic will be provided with Operator Services signaling for Feature Group C or Operator Services Address Signaling for Feature Group D service. (T)

(D)
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(D)

15. OPERATOR SERVICES (Cont'd)

15.2 Manner of Provisioning (Cont'd)

15.2.3 Design Layout Report

Upon request, the Telephone Company will provide, to the Customer, the make-up of facilities and services provided from the Customer's premises to the OSS Tandem. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided at no charge and will be reissued or updated whenever the facilities provided for the Customer's use are materially changed.

15.2.4 Design Blocking

Trunks between the Customer's premises and the OSS Tandems will follow the normal Feature Group B, C, or D blocking criteria as set forth in 4.3.7 preceding. The Telephone Company will perform routine measurement functions to inform the Customer that an adequate number of transmission paths are in service to meet the normal Feature Group B, C, or D design blocking levels. However, capacity levels and trunk quantities will be responsibility of the Customer.

15.2.5 Testing

Acceptance testing for Operator Services will be provided as set forth in 4.1.4 preceding. Testing Capabilities for Feature Group B, Feature Group C, and Feature Group D services utilized in conjunction with Operator Services will be provided as set forth in 4.2.2(D), 4.2.3(D) and 4.2.4(D) preceding.

15.2.6 Interface Groups and Transmission Parameters

Operator Services will utilize the same interface groups and transmission specifications as specified in 4.2.2(C), 4.2.3(C) and 4.2.4(C) preceding.

15.2.7 Ordering and Billing Options and Conditions

(A) Operator Transfer Service is ordered under the access order provisions as set forth in Section 9 preceding. The Access Order Charge applicable for Switched Access will apply per access order - one per state - for the installation, addition, change, or rearrangement of Operator Transfer Service. In addition, other Access Order Charges (i.e., Service Date Change Charges, etc.) may apply. (C) (D)

(B) Billing for all Operator Services will occur on a monthly basis as other billing is performed, but will be rendered on a statement detailing the flat-rated charges for the entire state applicable to that Customer for the specified monthly period.

15. OPERATOR SERVICES (Cont'd)

15.3 Liability of the Telephone Company

In addition to the liability statements as set forth in Section 2 preceding, the following also applies.

(A) The Telephone Company's liability, if any, for its gross negligence or willful misconduct is not limited by this tariff. With respect to any other claim or suit, by a Customer or any others, for damages arising out of negligent mistakes, omissions, interruptions, delays or errors, defects in transmission, omission from or defects in the applicable list of Customers or transfers to Customers occurring in the course of furnishing service hereunder, the Telephone Company's liability, if any, shall not exceed an amount equivalent to the proportionate charge to the Customer for the period of time during which such mistake, omission, interruptions, delays, errors, defects in transmission or service, omissions from or defects in the applicable list of Customers or transfers to Customers continues. However, any such mistakes, omissions, interruptions, delays, errors, or defects in transmission or service, omissions from or defects in the applicable list of Customers or transfers to Customers which are caused by or contributed to by the negligent omission or willful act of the customer provided facilities or equipment shall not result in the imposition of any liability whatsoever upon the Telephone Company. The Telephone Company expressly disclaims any express or implied warranty for the aforesaid service or offering including no warranty of merchantability or warranty of fitness for any particular purpose. It is expressly acknowledged by all subscribers to the aforesaid service that errors, mistakes and omissions can and will occur and that the Telephone Company neither warrants nor guarantees faultless or perfect service or transmission.

(B) The Customer indemnifies and saves the Telephone Company harmless against claims for libel, slander, or infringement of copyright and trademark arising from the information transmitted over facilities furnished hereunder and against all other claims arising out of any act or omission of the Customer in connection with facilities provided by the Telephone Company.

(C) The Customer indemnifies and saves the Telephone Company harmless against claims or suits for damages arising where the connection between the calling end user and a local emergency agency is in some way faulty or impaired, due in whole or in part to the negligent mistake or delay of the Telephone Company. Examples of this may include, but are not limited to, instances in which the Telephone Company, through negligent mistake or delay, may provide an incorrect local emergency agency number, delay in locating a local emergency agency number, or disconnect an in-progress call between a calling end user and a local emergency agency.

15. OPERATOR SERVICES (Cont'd)

15.4 Obligations of the Customer

In addition to the general regulations as set forth in Section 2 preceding, the following also applies.

(A) The Customer shall provide the necessary on-hook, off-hook, answer supervision, and disconnect supervision at the Customer's premises.

(B) Jurisdictional reporting will apply as required in Section 2.3.11 for determining the Percent Interstate Usage (PIU).

15.5 Rate Regulation

15.5.1 Description and Application of Rates and Charges

(A) Operator Transfer Service

The Operator Transfer Charge is a flat-rated charge applicable per call transferred to the subscribing Customer.

In addition to the Operator Transfer Charge, Switched Access rates apply as set forth in 4.7 preceding for usage originating from all end offices served by the OSS Tandem.

Nonrecurring Switched Access charges are applicable as specified in 4.6 and 4.7 preceding.

(D)

(D)

15. OPERATOR SERVICES (Cont'd)

15.5 Rate Regulation (Cont'd)

15.5.2 Rates and Charges

		Per Call Transferred	
(A)	Operator Transfer [1]	$ 0.33	(T)

(D)

(D)

[1] In addition, Switched Access charges are applicable as detailed in 15.5.1 preceding. (T)

16. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) DATA BASE SERVICES

16.1 Line Information Data Base (LIDB) Access Service

16.1.1 General

Line Information Data Base (LIDB) Access Service provides the Customer the ability to access billing validation data contained on the Telephone Company's LIDB located in Johnson City, Tennessee and Bristol, Tennessee. The LIDB is accessed through the Telephone Company SS7 network that utilizes American National Standards Institute (ANSI) signaling protocol. Access to the Telephone Company's LIDB provides Customers the ability to provide toll fraud protection by validating calling card and toll billing exception data and performing public telephone checks. (T)

16.1.2 Description

LIDB Access Service is provided by the Telephone Company to its Customers in support of alternate billing services. LIDB Access Service provides access to billing validation data that resides on the Telephone Company database for use with alternate billing services. Alternate billing services allow Customer's end users the ability to bill calls to an account not necessarily associated with the originating line. LIDB Access Service supports alternate billing services such as Calling Card, Collect Calls, and Third Number Billing. (T)

Customers participating in LIDB Access Service for purposes of obtaining billing validation data, which resides on the Telephone Company database, originate queries to the LIDB from an Operator Services System (OSS) identified by an Originating Point Code (OPC). The LIDB query is routed through one of two Telephone Company interconnecting Signaling Transfer Points (STPs), located in Johnson City, Tennessee and Bristol, Tennessee, to the Telephone Company Regional Service Control Point (SCP) where the LIDB resides.

The requested billing validation data, in the form of signaling information, is passed back via either one of the two Telephone Company interconnecting STPs to the customer designated OSS where the LIDB query was originated. The Telephone Company LIDB will receive and respond to Calling Card Service and Billed Number Screening queries as defined in Technical Reference Publications GA-246, FR-271, GR-905 and GR-954. (T)

LIDB Access Service will provide the following functions on a per query basis:

- Validation of a telecommunications calling card stored on LIDB
- Determination of whether the billed line automatically rejects certain calls billed as collect or third number
- Determination of whether the billed line in the Billed Number Screening Query is a public telephone number using the "Service or Equipment Indicator" in the LIDB

All access to the Telephone Company's LIDB will occur through two Telephone Company interconnecting STPs located in Johnson City, Tennessee and Bristol, Tennessee.

16. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) DATA BASE SERVICES (Cont'd)

16.1 Line Information Data Base (LIDB) Access Service (Cont'd)

16.1.2 Description (Cont'd)

(A) Limitations

Unless expressly authorized in writing by the Customer and the Telephone Company, LIDB Access Service is not to be used for purposes other than those LIDB functions described in 16.1.2 preceding. LIDB Access Service is to be used for those services only on a call-by-call basis and data accessed on LIDB may not be stored elsewhere for future use.

Proprietary information resident in the Telephone Company LIDB is protected from unauthorized access and may not be stored in a Customer's database for any reason. All information related to alternate billing services is proprietary. Some examples of proprietary information are as follows:

- Billed Number (resides in the Telephone Company LIDB)
- PIN Number(s) (resides in the Telephone Company LIDB)
- Billed Number Screening (BNS) indicators (resides in the Telephone Company LIDB)
- Reports on LIDB usage
- Information related to billing for LIDB usage
- LIDB usage statistics

(B) Rate Categories

There are two basic elements which apply to LIDB Access Service: Query Transport and Query.

(1) Query Transport

The Query Transport rate element provides for the transmission facilities between the Telephone Company's STPs located in Johnson City, Tennessee and Bristol, Tennessee and the Telephone Company SCP where the LIDB resides.

16. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) DATA BASE SERVICES (Cont'd)

(T)

16.1 Line Information Data Base (LIDB) Access Service (Cont'd)

16.1.2 Description (Cont'd) (T)

(B) Rate Categories

(2) Query

The Query rate element provides for the validation of calling card and toll billing exception data and performance of public telephone checks.

For these validation purposes, LIBD Access Service Customers will query the LIDB located in the Telephone Company SCP via the Telephone Company CCS/SS7 network. The LIDB will respond with a verification signal message back to the LIDB Access Service Customer via the Telephone Company CCS/SS7 network.

The charges associated with Query Transport and Query are set forth in 16.1.6 following.

(C) Acceptance Testing

The Telephone Company will perform testing of the LIDB Access Service in conjunction with CCS/SS7 Interconnection Service as outlined in Technical Reference Publications GR-905 and GR-954.

(D) Ordering Options and Conditions

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

16.1.3 Undertakings 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 LIDB Access Service. These obligations are as follows:

16. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) DATA BASESERVICES (Cont'd)

16.1 Line Information Data Base (LIDB) Access Service (Cont'd)

16.1.3 Undertakings of the Telephone Company (Cont'd)

(A) LIDB Data Specifications

The Telephone Company's LIDB will contain a record for every working line number and Billed Number group, served by the Telephone Company. Other exchange carriers who may store their data in the Telephone Company LIDB are requested to provide this data as well.

The Telephone Company will administer its LIDB update process by use of a Data Base Administration System (DBAS). Updates contain information for calling card, collect and bill-to-third party Alternate Billing Services (ABS) verification.

The Telephone Company generates customer record service order update activity which is electronically transferred to LIDB from the DBAS system. Mechanized updates (e.g., add, delete, modify customer accounts as Customers move, order new service, disconnect service, or become delinquent on their accounts) are processed daily, 6 days per week, Monday through Saturday. Emergency updates for calling cards reported lost, stolen or otherwise compromised will be made 7 days per week, 24 hours per day.

ABS query usage within LIDB is monitored for unusual patterns which may be indicators of abuse or attempted fraud. By using a threshold method, when validation queries for a specific LIDB record reach the Telephone Company's established usage threshold level, the number is placed on an exception list and an investigator will determine the validity of the usage. If the usage is determined to be invalid, the investigator will immediately deactivate the record in LIDB.

Usage thresholds will be established by the Telephone Company. Thresholds may vary by class of end user account (e.g., residence, business). Usage thresholds are applied uniformly within LIDB, and will monitor combined query usage from all LIDB Access Service Customers.

The Telephone Company will also establish usage thresholds which, when met by query activity to a calling card record, will automatically disable the record in LIDB. The number is placed on an exception list and an investigator will determine validity of the usage. If a calling card is automatically disabled and the usage is determined valid, the calling card will be reactivated in LIDB.

16. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) DATA BASE SERVICES (Cont'd)

16.1 Line Information Data Base (LIDB) Access Service (Cont'd)

16.1.3 Undertakings of the Telephone Company (Cont'd)

(A) LIDB Data Specifications (Cont'd)

The Telephone Company will administer its LIDB to insure the provision of acceptable service levels to all Customers. During periods of LIDB congestion, an automatic call-gapping procedure will be utilized to control such congestion. The automatic call-gapping procedure signals the switch and identifies the gap (how long the switch should wait before sending another query) and duration (how long the switch should continue to perform gapping) according to the level of congestion. For example, during an overload condition, the automatic call-gapping procedure will signal the switch when to begin to drop one out of three of the queries received. This call-gapping procedure will be applied uniformly to all users of the Telephone Company's LIDB service.

The Telephone Company maintains the right to invoke manual intervention of the automatic call-gapping procedure to preserve the integrity of the network.

(B) Provision of Billing Information

LIDB Access Service Queries received at the SCP are accumulated and records are generated identifying the number of queries processed by the Originating Point Code (OPC) of the Customer's Operator Service System (OSS) location. This information is delivered to the accounting office via tape or by teleprocessing for processing and billing. The query charges will be accumulated and billed to the LIDB Access Service customer each month.

The Telephone Company will provide sufficient information with the bill to enable the Customer to determine how the billed amount was calculated. Included on the bill will be separate entries displaying the Billed Number Screening queries and the Calling Card Number queries.

Other reports may be provided as mutually agreed upon. Such agreements, provided on an individual case basis, may involve additional charges or conditions.

16.1.4 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 LIDB Access Service. These obligations are as follows:

(A) LIDB Access Service PIU Report

The Customer shall provide to the Telephone Company a LIDB Access Service Percent Interstate Usage (PIU) Report in accordance with the provisions specified in Section 2.3.11 preceding.

16. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) DATA BASE SERVICES (Cont'd)

16.1 Line Information Data Base (LIDB) Access Service (Cont'd)

16.1.5 Rate Regulations

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

(A) Description of Rates and Charges

There are two types of rates and charges that will apply to LIDB Access Service. These are usage rates and nonrecurring charges. These rates and charges are applied as set forth in (a) and (b) following. For billing purposes, each month is considered to have 30 days.

(1) Usage Rates

The usage rates (Query Transport and Query) for LIDB Access Service are applicable on a per query basis as described in (B) following.

(2) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific activity (i.e., installation or change to an existing service). The nonrecurring charges that apply for installation of LIDB Access Service are described in (a) following. The nonrecurring charges that apply for service rearrangements are described in (b) following.

(a) Establishment of Service

Nonrecurring charges apply for each request for establishment of LIDB Access Service. The nonrecurring charges for the establishment of LIDB Access Service are set forth in Section 9.2 preceding.

16. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) DATA BASE SERVICES (Cont'd)

16.1 Line Information Data Base (LIDB) Access Service (Cont'd)

16.1.5 Rate Regulations (Cont'd)

(A) Description of Rates and Charges (Cont'd)

(2) Nonrecurring Charges (Cont'd)

(b) Service Rearrangements

Service Rearrangements are changes to existing services which do not result in either a change in the minimum period requirements as set forth in Section 9.2.4 preceding or a change in the location designated by the OPC.

Changes which result in the establishment of new minimum period obligations are treated as a discontinuance of the existing service and establishment of a new service and all applicable nonrecurring charges will apply.

Certain service rearrangements which are administrative in nature (as specified in Section 4.6.1(C)(1) preceding) will be made without charge except as noted.

Provisions for service rearrangements for which nonrecurring charges will apply are also set forth in Section 4.6.1(C)(1) preceding.

(B) Application of Rates and Charges

Rates and charges for LIDB Access Service are applied as follows:

(1) Query Transport

Query Transport is a usage rate charge which applies to each query routed over transmission facilities between the Telephone Company's STPs in Johnson City, Tennessee and Bristol, Tennessee and the Telephone Company SCP where the LIDB resides. These charges are applied on a per query basis, and are accumulated over a monthly period and billed to the Customer on a monthly basis.

(2) Query

A usage rated Query Charge applies to each LIDB query received at the Telephone Company Service Control Point (SCP). Per query charges are accumulated over a monthly period and are billed to the Customer on a monthly basis.

16. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) DATA BASE SERVICES (Cont'd)

16.1 Line Information Data Base (LIDB) Access Service (Cont'd)

16.1.5 Rate Regulations (Cont'd)

(C) Minimum Periods

LIDB Access Service is provided for a minimum of one month. When service is disconnected prior to the expiration of the minimum period, usage charges are applicable for the balance of the minimum period. If service is disconnected after the minimum period, usage charges will be based on the actual number of queries. For the purpose of administering this regulation, with respect to the determination of charges for a fractional part of a month, every month is considered to have 30 days.

16.1.6 Rate and Charges

		Rate
(A)	Query Transport - per query	$0.0016
(B)	Query - per query	$0.0366

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17. RESERVED FOR FUTURE USE (C)

(D)

(D)

17. RESERVED FOR FUTURE USE (Cont'd) (C)

(D)

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17. RESERVED FOR FUTURE USE (Cont'd) (C)

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17. RESERVED FOR FUTURE USE (Cont'd) (C)

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17. RESERVED FOR FUTURE USE (Cont'd) (C)

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17. RESERVED FOR FUTURE USE (Cont'd) (C)

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17. RESERVED FOR FUTURE USE (Cont'd) (C)

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17. COLLOCATION SERVICES (Cont'd) (C)

(D)

(D)

17. RESERVED FOR FUTURE USE (Cont'd) (C)

(D)

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