

**Transmittal No. 25**  
**ACCESS SERVICE – CARRIER TO CARRIER**

CHECK SHEET

Title Page and Pages 1 to 146 inclusive of this tariff are effective as of the date shown. Original and revised pages as named below contain all changes from the original tariff that are in effect on the date hereof.

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1	23 <sup>rd</sup> *	35	Original	66.3	Original	88	Original	122	Original
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3	Original	37	Original	66.5	1 <sup>st</sup> *	90	Original	124	Original
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20	Original	54	Original	80.1	3 <sup>rd</sup>	107	Original	139	Original
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31	Original	65	Original	86.2	Original	118	Original		
32	Original	66	Original	86.3	Original	119	Original		
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\*New or Revised

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EXPLANATION OF ABBREVIATIONS (cont'd)

FRAC	Frame Relay Access Connection
FRAS	Frame Relay Access Service
FRIC	Frame Relay Inter-network Connection
IAM	Initial Address Message
IC	Interexchange Carrier
ICP	Inter-Network Customer Port
JTST	Joint Tandem Switched Transport
LATA	Local Access & Transport Area
LA	Lifeline Assistance
LNP	Local Number Portability
LRN	Local Routing Number
MPB	Meet Point Billing
MTS	Message Toll Service
NEC	New Exchange Carrier
NRC	Nonrecurring Charge

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2.6 Definitions (Cont'd)

Joint Tandem Switched Transport: The rate element assessable for the transmission of originating toll free minutes. The rate element includes both the transport between the end office and the tandem switch and the tandem switching. It does not include transport of traffic over dedicated transport facilities between the serving wire center and the tandem switching office.

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Interexchange Carrier: A carrier engaged in the provision of intrastate, interstate or international telecommunications services.

Kbps: Kilobits, denotes one thousand bits per second.

Local Access and Transport Area: Geographic areas established for defining the territory within which a Bell Operating Company may offer its exchange telecommunications and exchange access services. Other communications entities may be associated with a BOC LATA or Independent Exchange Carriers' Market Service Area.

Local Number Portability: Allows an End User to maintain the same telephone number when changing from one Local Service Provider (LSP) to another.

Local Routing Number: The number used to direct the call to the correct Local Service Provider (LSP) network switch for completion when the End User has ported its telephone number to an LSP other than the LSP assigned the NPA-NXX of the End User telephone number.

Mbps: Megabits, denotes millions of bits per second.

Market Service Area: The geographic area established by an Independent Exchange Carrier not associated with a Bell Operating Company LATA within which they may offer exchange or exchange access telecommunications service.

Meet Point: A point designated by two Exchange Carriers for billing purposes.

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2.6 Definitions (Cont'd)

Mixed Use: The use of Switched Access and Special Access services over the same wideband and high capacity facilities through a common interface.

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Multiplexing: The process of combining multiple parallel circuits into a single communications channel.

Network: The Company's fiber optics based facilities and/or purchased facilities as part of an interconnection agreement.

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Nonrecurring Charge: A one-time charge, generally applied to activities associated with the establishment of service, construction, rearrangements, and/or optional features and functions.

Optical Carrier Channel: The high speed optical communications path for transporting information utilizing a Synchronous Optical Channel platform.

Optional Features and Functions: These are features and functions a Customer may order to improve the quality or utility of Access Services.

Packet Data Network: A high-speed digital data transport mechanism that moves variable-length packets or frames through the network to the same or different addresses.

Pay Telephone: The term denotes a coin or coinless instrument provided in a public or semipublic place where Payphone Service Provider customers can originate telephonic communications and pay the applicable charges by (1) inserting coins into the equipment, or (2) using a credit card, or (3) third party billing the call, or (4) calling collect.

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2.6 Definitions (Cont'd)

Payphone Service Provider: The term denotes an entity that provides pay telephone service, which is the provision of public, semi public or inmate pay telephone service.

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Permanent Virtual Connection (PVC): The term denotes a software defined, end-to-end, bi-directional communications path within the frame network/switch to connect a Frame Relay and User Port.

Premises: Space occupied by a Customer or authorized user in a building or buildings or contiguous property (except railroad rights-of-way) not separated by a highway.

Presubscription: A process that allows an End User served by an equal access office to select in advance an interexchange carrier automatically for toll communication.

Point of Termination: A physical point within a LATA or Market Service Area at which the Company's responsibility for access service ends.

Recurring Charges: Monthly charges to the Customer for services, facilities and equipment which continue for the agreed-upon duration of the service.

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RMS Jitter: Short-term variations of the significant instants of a digital signal, peak to peak, from their ideal positions in time.

Service Order: A written request for Access Services initiated by the Customer to the Company in the format devised by the Company. It is sometimes referred to as an Access Service request (ASR). The signing of a Service Order by the Customer and acceptance by the Company initiates the respective obligations of the parties set forth herein pursuant to this tariff, but the duration of service is calculated from the Service Commencement Date.

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2.6 Definitions (Cont'd)

Service Commencement Date: The first day following the date on which the Company notifies the Customer that the requested service or facility is available for use, unless extended by the Customer's refusal to accept service which does not conform to standards set forth in the Service Order or this tariff. In the latter case, the Service Commencement Date is the date of the Customer's acceptance. The parties may mutually agree on a substitute Service Commencement Date.

Special Access Service: Generally dedicated (private line) facilities between two or more Customer Designated Premises.

Standard Permanent Virtual Connection (SPVC): The connection of ports within the same frame relay network or switch. A software connection sometimes referred to as Permanent Virtual Connection (PVC).

Switched Access Service: Access to the Company's local switch network by an interexchange carrier for the purposes of originating and/or terminating jurisdictional communications.

Transport Interconnection Charge: A per-access minute charge applicable to transport per FCC CC Docket No. 91-213, Report and Order, March 5, 1998.

Wire Center: A building in which the Company's switching center is located for the purpose of providing service.

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**6. SWITCHED ACCESS SERVICE – Feature Group D Switched Service (Cont'd)**

**6.2 Feature Group D – Digital Switched 56 Service (Cont'd)**

**6.2.1 General (Cont'd)**

**6.2.1.1 Rate Categories**

The interexchange carrier Customer's rate categories will include the following switched access elements (described in 6.1 preceding):

Carrier Common Line (if applicable)

End office/Local Switching per minute of use

Common Trunk Port Switching per minute of use

Local Transport Termination per termination

Local Transport Facility per minute per mile

**6.3 Feature Group D – Common Channel Signaling Service (SS-7)**

**6.3.1 General**

Common Channel Signaling (CCS), Signaling System 7 (SS7) protocol is a digital data network which carries signaling information and interfaces with the voice/data network. The SS7 protocol provides for signaling functions such as establishing connections, providing billing information, validating credit cards, and other services. Usage charges apply for each Initial Address Message (IAM) or Transaction Capabilities Application Port (TCAP) message (excluding TCAP messages for LIDB Access, Toll Free Service Data Base Access, and LNP Data Base Access) that is switched by the STP or switched by the STP and transported over SS7 facilities provided by the Company.

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6.3 Feature Group D – Common Channel Signaling Service (SS-7) (Cont'd)

6.3.1 General

Signal Formulation:

Signal Formulation permits the formulation of the following SS7 signaling call setup parameters: User Service Information, Called Party Number, Calling Party Number, Charge Number, Originating

Line Information, CIC, Service Code, and Access Transport. A Signal Formulation charge is assessed for each IAM message formulated at the Company Tandem or End Office for originating FGD traffic and for each IAM message formulated for terminating FGB and FGD traffic that is tandem routed.

A TCAP formulation charge is assessed for each TCAP message that is formulated at the Company Tandem or End Office (excluding LIDB Access, Toll Free Services Data Base Access, and LNP Data Base Access) that are non-call associated signaling messages.

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Signal Transport:

A Signal Transport charge is assessed for each IAM message that is transported to the local Signal Transfer Point (STP) from the Company Tandem or End Office for Direct routed originating FGD traffic. A Signal Transport charge is also assessed for each IAM message that is transported from the local STP to the end office for terminating FGB and FGD traffic that is direct routed to the end office.

A TCAP Signal Transport charge is assessed for each TCAP message that is transported to or from the STP to the designated Service Control Point (SCP) or signaling point.

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11. RATES FOR SERVICE (Cont'd)

11.4 Switched Access Rates (Cont'd)

<u>END OFFICE</u>	State	ILEC Company	Non-Toll Free Service Originating Rate	Terminating Rate
<b><u>Per Access Minute</u></b>				
Local Switching	Michigan	AT&T	\$0.003116	\$0.000000
Local Switching	Michigan	Frontier	\$0.001412	\$0.000000
Local Switching	Ohio	AT&T	\$0.003116	\$0.000000
Local Switching	Ohio	CenturyLink	\$0.003644	\$0.000000
Local Switching	Ohio	Frontier	\$0.002208	\$0.000000
Common Trunk Port	Michigan	AT&T	\$0.000371	\$0.000000
Common Trunk Port	Michigan	Frontier	\$0.000529	\$0.000000
Common Trunk Port	Ohio	AT&T	\$0.000371	\$0.000000
Common Trunk Port	Ohio	CenturyLink	\$0.000405	\$0.000000
Common Trunk Port	Ohio	Frontier	\$0.001548	\$0.000000

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<u>END OFFICE</u>	State	ILEC Company	Toll Free Service Originating Rate	Toll Free Service Originating Rate	Toll Free Service Originating Rate
<b><u>Per Access Minute</u></b>			7/1/2021	7/1/2022	7/1/2023
Local Switching	Michigan	AT&T	\$0.003116	\$0.001553	\$0.000000
Local Switching	Michigan	Frontier	\$0.001412	\$0.000706	\$0.000000
Local Switching	Ohio	AT&T	\$0.003116	\$0.001553	\$0.000000
Local Switching	Ohio	CenturyLink	\$0.003644	\$0.001822	\$0.000000
Local Switching	Ohio	Frontier	\$0.002208	\$0.001104	\$0.000000
Common Trunk Port	Michigan	AT&T	\$0.000371	\$0.000186	\$0.000000
Common Trunk Port	Michigan	Frontier	\$0.000529	\$0.000265	\$0.000000
Common Trunk Port	Ohio	AT&T	\$0.000371	\$0.000186	\$0.000000
Common Trunk Port	Ohio	CenturyLink	\$0.000405	\$0.000203	\$0.000000
Common Trunk Port	Ohio	Frontier	\$0.001548	\$0.000774	\$0.000000

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11. RATES FOR SERVICE (Cont'd)

11.4 Switched Access Rates (Cont'd)

<b><u>Transport – Terminating &amp; Originating Non-Toll Free Service</u></b>	State	ILEC Company	Non-Toll Free Service Originating Rate	Terminating Rate	(T)
Common Multiplexing	Michigan	AT&T	\$0.000000(R)	\$0.000017	(T)
Common Multiplexing	Michigan	Frontier	\$0.000000	\$0.000000	(M,C)
Common Multiplexing	Ohio	AT&T	\$0.000000(R)	\$0.000017	
Common Multiplexing	Ohio	CenturyLink	\$0.000405	\$0.000405	
Common Multiplexing	Ohio	Frontier	\$0.000000	\$0.000000	
Transport Termination (per MOU)	Michigan	AT&T	\$0.000000(R)	\$0.000103	
Transport Termination (per MOU)	Michigan	Frontier	\$0.000000	\$0.000000	
Transport Termination (per MOU)	Ohio	AT&T	\$0.000000(R)	\$0.000103	
Transport Termination (per MOU)	Ohio	CenturyLink	\$0.000412	\$0.000412	
Transport Termination (per MOU)	Ohio	Frontier	\$0.000000	\$0.000000	
Transport Facility (per MOU, per mile)	Michigan	AT&T	\$0.000000(R)	\$0.000013	
Transport Facility (per MOU, per mile)	Michigan	Frontier	\$0.000002	\$0.000002	
Transport Facility (per MOU, per mile)	Ohio	AT&T	\$0.000000(R)	\$0.000013	
Transport Facility (per MOU, per mile)	Ohio	CenturyLink	\$0.000035	\$0.000035	
Transport Facility (per MOU, per mile)	Ohio	Frontier	\$0.000002	\$0.000002	
Tandem Switching (per MOU)	Michigan	AT&T	\$0.001000(R)	\$0.001116	
Tandem Switching (per MOU)	Michigan	Frontier	\$0.003000	\$0.003000	
Tandem Switching (per MOU)	Ohio	AT&T	\$0.001000(R)	\$0.001116	
Tandem Switching (per MOU)	Ohio	CenturyLink	\$0.000124	\$0.000124	
Tandem Switching (per MOU)	Ohio	Frontier	\$0.002400	\$0.002400	(M,C)

<b><u>Transport – Originating Toll Free Service</u></b>	State	ILEC Company	Rate	(N)
Common Multiplexing	Michigan	ALL	\$0.000000	
Common Multiplexing	Ohio	ALL	\$0.000000	
Transport Termination (per MOU)	Michigan	ALL	\$0.000000	
Transport Termination (per MOU)	Ohio	ALL	\$0.000000	
Transport Facility (per MOU, per mile)	Michigan	ALL	\$0.000000	
Transport Facility (per MOU, per mile)	Ohio	ALL	\$0.000000	
Tandem Switching (per MOU)	Michigan	ALL	\$0.000000	
Tandem Switching (per MOU)	Ohio	ALL	\$0.000000	
Joint Tandem Switched Transport (per MOU)	Michigan	ALL	\$0.001000	
Joint Tandem Switched Transport (per MOU)	Ohio	ALL	\$0.001000	(N)

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11. RATES FOR SERVICE (Cont'd)

11.8 Miscellaneous Access Service – TSP

Specialized Service or Arrangements	ICB	
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11.9 Access Recovery Charge (ARC)

	<u>Michigan</u>		<u>Ohio</u>	
	<u>Frontier</u>	<u>AT&amp;T</u>	<u>ALL</u>	(T)
Primary Residential Line	\$0.00	\$0.00	\$0.20	(R)
Additional Residential Line	\$0.00	\$0.00	\$0.20	(R)
ISDN BRI	\$0.00	\$0.00	\$2.65	(I)
Single Line Business	\$1.95	\$0.00	\$0.30	(R)
Multiline Business	\$3.00	\$2.60	\$2.75	(I)
Business Centrex	\$3.00	\$2.60	\$2.75	(I)
ISDN PRI	\$15.00	\$13.00	\$13.25	(I)
Digital Trunk Service (DTS)	\$6.00	\$5.20	\$5.50	(I)