

## ACCESS SERVICE

CHECK SHEET

Title Page 1 and Pages 1 to 15-87 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.

<u>Page</u>	Number of Revision Except as <u>Indicated</u>	<u>Page</u>	Number of Revision Except as <u>Indicated</u>	<u>Page</u>	Number of Revision Except as <u>Indicated</u>
Title Page 2	3 <sup>rd</sup> Revised	2-56	1 <sup>st</sup> Revised	5-9	1 <sup>st</sup> Revised
1	30 <sup>th</sup> Revised*	2-57	1 <sup>st</sup> Revised	5-10	1 <sup>st</sup> Revised
1.1	25 <sup>th</sup> Revised*	2-58	1 <sup>st</sup> Revised	5-11	2 <sup>nd</sup> Revised
1.2	16 <sup>th</sup> Revised	2-59	1 <sup>st</sup> Revised	5-12	1 <sup>st</sup> Revised
3	3 <sup>rd</sup> Revised	2-60	1 <sup>st</sup> Revised	5-13	1 <sup>st</sup> Revised
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2-19	1 <sup>st</sup> Revised	2-65	1 <sup>st</sup> Revised	5-18	2 <sup>nd</sup> Revised
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2-22	1 <sup>st</sup> Revised	2-69	1 <sup>st</sup> Revised	5-22	1 <sup>st</sup> Revised
2-23	1 <sup>st</sup> Revised	2-70	1 <sup>st</sup> Revised	5-23	Original
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2-35	2 <sup>nd</sup> Revised	2-77	1 <sup>st</sup> Revised	5-28	Original
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2-45	1 <sup>st</sup> Revised	2-80	1 <sup>st</sup> Revised	6-11	1 <sup>st</sup> Revised
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2-53	1 <sup>st</sup> Revised	5-6	1 <sup>st</sup> Revised	7-8	3 <sup>rd</sup> Revised
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2-55	1 <sup>st</sup> Revised	5-8	1 <sup>st</sup> Revised	7-9.1	1 <sup>st</sup> Revised
				7-9.2	Original
				7-10	1 <sup>st</sup> Revised

\* New or revised pages

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10-6	1 <sup>st</sup> Revised*	15-6	12 <sup>th</sup> Revised*		
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		15-6.2	Original		

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## ACCESS SERVICE

5. Access Ordering (Cont'd)5.6 Hub Locations (Cont'd)5.6.1 TDS Metrocom, LLC (Cont'd)

CLLI (8 Character)	3 character CLLI	Direct Trunk Transport Available	Domestic or COLO	CITY	STATE
VNHLILCK	WMD	Yes	CENTRAL OFFICE HUB	VERNON HILLS	IL
WYNGMIKE	OMD	Yes	CENTRAL OFFICE HUB	WYOMING	MI
LNNGMIO6	OMD	Yes	CENTRAL OFFICE HUB	LANSING	MI
PLMOMIBY	OMD	Yes	CENTRAL OFFICE HUB	PLYMOUTH	MI
BRNBMNBR	HG1	No	FACILITY HUB	BRAINERD	MN (C)
BRNRMNWS	W01	No	FACILITY HUB	BRAINERD	MN
BXTRMNAC	H02	No	CUSTOMER PREM HUB	BAXTER	MN
MNTIMNAC	OMD	Yes	CENTRAL OFFICE HUB	MONTICELLO	MN
MPLSMNDT	HG0	No	FACILITY HUB	MINNEAPOLIS	MN
MPLSMNMS	W01	No	FACILITY HUB	MINNEAPOLIS	MN
OSSEMNXO	2MD	No	CUSTOMER PREM HUB	OSSEO	MN
PQLKMNP	BMD	No	FACILITY HUB	PEQUOT LAKES	MN
STCDMNTO	HG2	No	FACILITY HUB	ST. CLOUD	MN
WADNMNUS	W01	No	FACILITY HUB	WADENA	MN
BRNRMNCG	H02	No	CUSTOMER PREM HUB	BRAINERD	MN
BRNRMNDD	C01	No	CUSTOMER PREM HUB	BRAINERD	MN
SPLSMNAD	H00	No	CUSTOMER PREM HUB	STAPLES	MN
WADNMNAJ	H00	No	CUSTOMER PREM HUB	WADENA	MN (C)

5.6.2 Chorus Networks

Provided upon written request.

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**ACCESS SERVICE****10. Public Packet Data Network**

Public Packet Data Networks utilize separate data networks, comprised of switching, routing and transmission facilities. The networks provide for the transfer of data provided by a customer in a frame or cell format. The data is separated into discrete segments for transmission through the public packet data network

**10.1 Ethernet Service****10.1.1 General**

Ethernet Service (ES) is a high speed data transport service that provides best effort end-to-end transmission using Ethernet packet technology at transport speeds ranging from 2 Mbps to 10 Gbps, where available. ES is ideal for transport of broadband multimedia traffic (i.e., voice, data and video) using variable length Ethernet packets with the ability to interconnect multiple locations using the Telephone Company's ES network. Ethernet packets generated by Ethernet-compatible customer premises equipment (CPE) are transmitted using available capacity on shared transmission paths through the Telephone Company's ES network to a pre-specified destination. The ES customer may use ES to: (1) interconnect customer designated premises (CDPs) served by the Telephone Company's ES network, (2) interconnect with its local area network (LAN) to the Telephone Company's ES network and/or (3) interconnect its CDPs to an Ethernet network located outside of the Telephone Company's serving territory.

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**10.1.2 Service Description**

ES is provided using a combination of Ethernet Entrance Facility (EEF), Ethernet Virtual Circuits (EVC), and Multipoint EVC Carrier Ethernet Network (CEN).

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An EEF may be required to provide the interface into the Telephone Company's ES network. EVCs may be ordered to connect the Telephone Company's ES network to an EEF located outside the Telephone Company's market.

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**ACCESS SERVICE**10. Public Packet Data Network (cont'd)

## 10.1 Ethernet Service (cont'd)

## 10.1.2 Service Description (cont'd)

The transmission quality of ES is not guaranteed and is offered to customers at a best effort level. The Telephone Company will attempt to deliver all Ethernet packets received; however, network congestion may result in a loss of Ethernet packets. Transmission speeds using copper facilities may be affected by distance from the Telephone Company central office and other technical limitations in the Telephone Company's copper network and are also not guaranteed.

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Service is provided, where available, between CDPs and designated Telephone Company Facility Hubs. ES will be furnished where suitable facilities exist as determined by the Telephone Company. The Telephone Company will identify its ES-equipped Serving Wire Centers (SWCs) in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. No. 4.

Rates and charges for ES are provided on an ICB basis by contacting the Telephone Company's Carrier Sales team at 608.664.6226 or [tdscarriersales@tdstelecom.com](mailto:tdscarriersales@tdstelecom.com).

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## 10.1.3 Obligations of the Customer

In addition to the regulations described in other sections of this tariff, the following provisions apply to ES:

(A) The customer is responsible for providing the Telephone Company with the necessary information to provision ES as specified in Section 5 Ordering Requirements, preceding.

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(B) The customer is responsible for providing and maintaining all required CPE, which is compatible with ES and complies with the standards specified in Technical Reference IEEE Standard 802.3-2005, Part 3, Sections 1 through 5.

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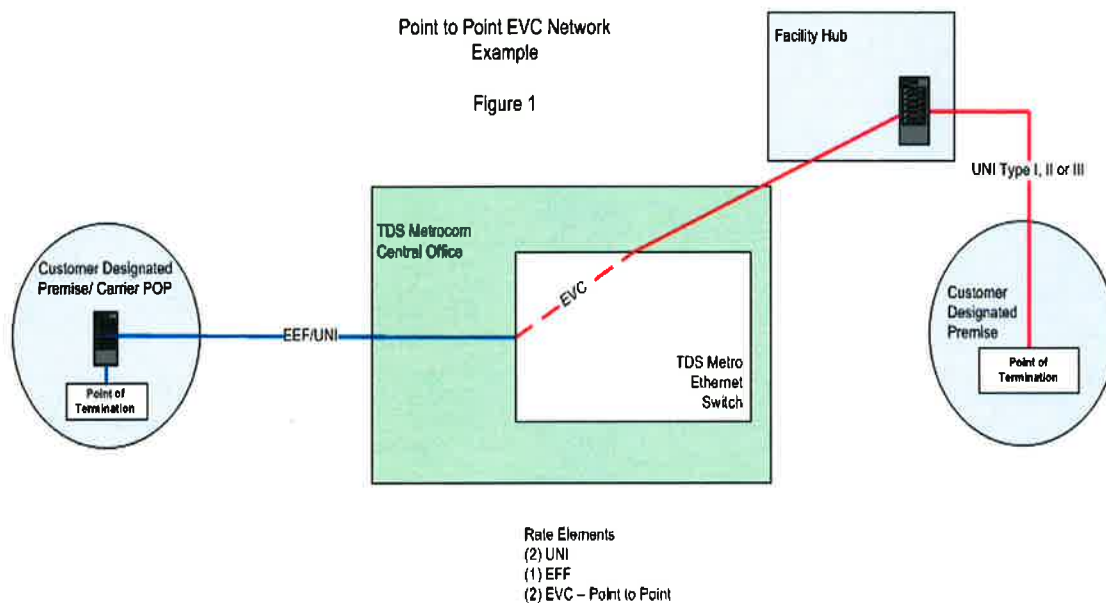
**ACCESS SERVICE**10. Public Packet Data Network (cont'd)

## 10.1 Ethernet Service (cont'd)

## 10.1.4 Rate Regulation

This section contains the regulations governing the rates and charges that apply for ES.

The following diagrams depict generic views of the elements of ES. In the first figure, the customer's CDPs are served by a single SWC. EVCs ordered between a UNI and an EEF. The customer orders the applicable ES elements from the Telephone Company pursuant to the provisions specified in this section.

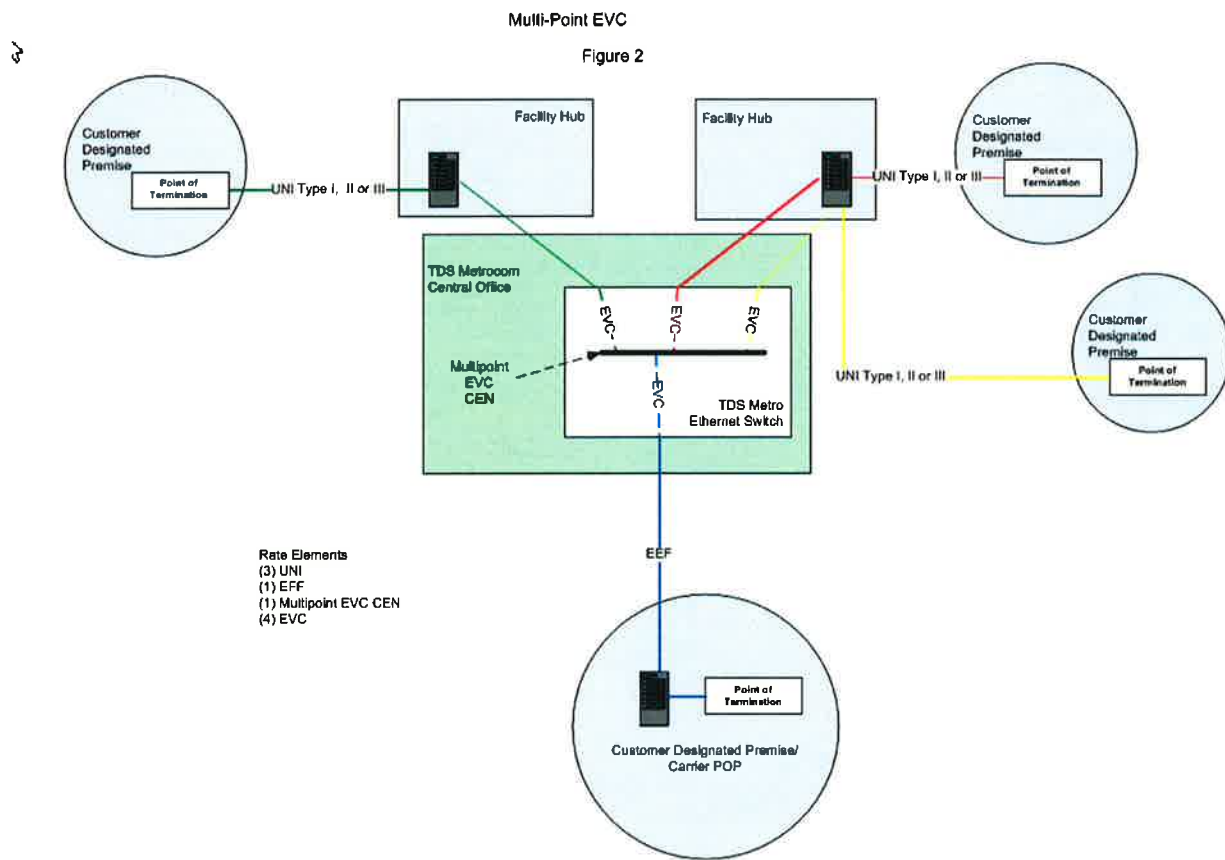


**ACCESS SERVICE**10. Public Packet Data Network (cont'd)

## 10.1 Ethernet Service (cont'd)

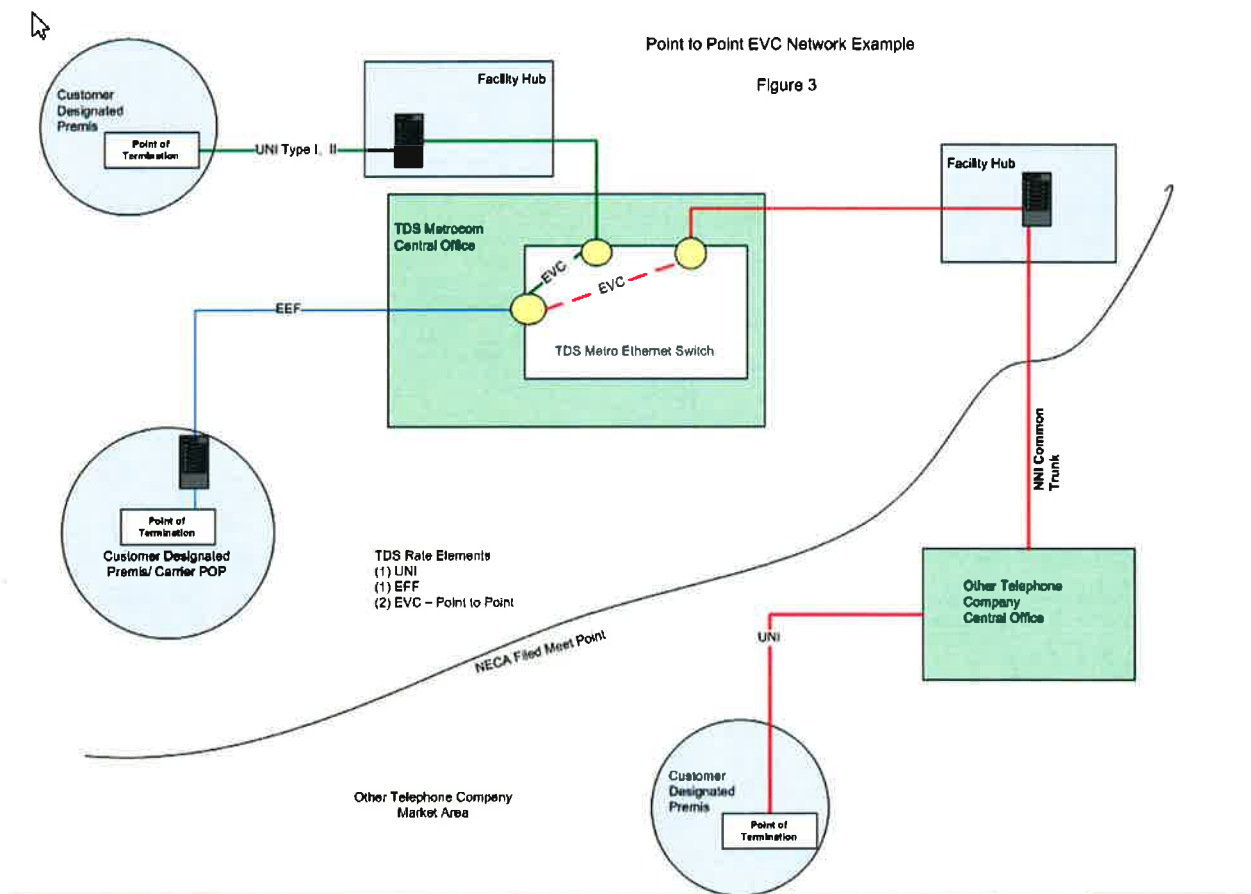
## 10.1.4 Rate Regulation (cont'd)

In the second figure, the ES customer's CPS's are served by a single SWC. Two UNI's, one EEF and a Multipoint EVC are ordered from the Telephone Company pursuant to the provisions specified in this section.



**ACCESS SERVICE****10. Public Packet Data Network (cont'd)****10.1 Ethernet Service (cont'd)****10.1.4 Rate Regulation (cont'd)**

In the third figure, one of the customer's CDPs is served by an adjacent telephone company's Ethernet network. The customer orders the applicable ES elements from the Telephone Company pursuant to the provisions specified in this section. In addition, the customer will order the applicable Ethernet service elements from the adjacent telephone company.





**ACCESS SERVICE**

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TDS METROCOM, LLC  
525 Junction Road  
Madison Wisconsin 53717

**ACCESS SERVICE**

10. Public Packet Data Network (cont'd)

10.1 Ethernet Service (cont'd)

10.1.4 Rate Regulation (cont'd)

(A) Rate Categories

The various ES service elements are described below.

(1) User Network Interface (UNI)

A UNI provides the transport facility between the customers's designated premises and the Telephone Company's ES Central Office Hub.

UNIs are available at bandwidth speeds of 100 Mbps, 1 Gbps, and 10 Gbps. 100 Mbps UNIs are only available to locations provisioned using copper facilities.

Monthly and nonrecurring charges apply for each UNI ordered. The monthly rate is based upon the bandwidth capacity ordered.

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**ACCESS SERVICE**

10. Public Packet Data Network (cont'd)

10.1 Ethernet Service (cont'd)

10.1.4 Rate Regulation (cont'd)

(A) Rate Categories (cont'd)

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(2) Ethernet Entrance Facility (EEF)

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EEF is a logical association which is established between the Telephone Company and the customer. EEF is used for aggregation of traffic on the network, and is available in fixed bandwidth amounts of 1 Gbps and 10 Gbps.

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Monthly and nonrecurring charges apply for each EEF ordered. The monthly recurring charge is based upon the bandwidth capacity ordered.

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**ACCESS SERVICE**10. Public Packet Data Network (cont'd)

## 10.1 Ethernet Service (cont'd)

## 10.1.4 Rate Regulation (cont'd)

## (A) Rate Categories (cont'd)

## (3) Ethernet Virtual Connections (EVCs)

EVCs are logical associations established by the Telephone Company across a shared transmission path. There are two types of EVC's – Point to Point and Multipoint to Multipoint. EVCs are established between two or more UNI's, an UNI and an EEF or a UNI and an NNI Common Trunk. EVCs are available in fixed bandwidth amounts of 2 Mbps, 5 Mbps, 10 Mbps, 20 Mbps, 30 Mbps, 40 Mbps, 50 Mbps, 60 Mbps, 70 Mbps, 80 Mbps, 90 Mbps, 100 Mbps, 200 Mbps, 250 Mbps, 300 Mbps, 400 Mbps, 500 Mbps, 600 Mbps, 700 Mbps, 750 Mbps, 800 Mbps, 900 Mbps, 1 Gbps, and 10 Gbps. The Telephone Company will establish EVCs based upon the bandwidth capacity specified by the customer on its Access Order.

Monthly and nonrecurring charges apply for each EVC ordered. The EVC monthly recurring charge is based upon the bandwidth capacity of the EVC ordered.

## (B) Types of Rates and Charges

There are two types of rates and charges. They are monthly rates and nonrecurring charges. The rates and charges are described below:

## (1) Monthly Rates

Monthly rates are recurring rates that apply each month or fraction thereof when an ES service element is provided. For billing purposes, each month is considered to have 30 days.

**ACCESS SERVICE**10. Public Packet Data Network (cont'd)

## 10.1 Ethernet Service (cont'd)

## 10.1.4 Rate Regulation (cont'd)

## (B) Types of Rates and Charges (cont'd)

## (2) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for ES are installation of service, service rearrangements, moves and design changes.

Except as specified below, these charges are in addition to the Access Order Charge as specified in Section 15.5.1, following.

## (a) Installation of Service

Nonrecurring charges apply for installation of UNIs, EVCs, and EEF.

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## (b) Service Rearrangements

Service rearrangements are changes to existing (i.e., installed) services, which may be administrative only in nature as set forth below or, that involve an actual physical change to the service.

When the customer elects to increase or decrease the bandwidth capacity on existing UNI, the request will be considered a discontinuance of service for the former capacity and start of service for the new capacity. Associated nonrecurring (i.e., installation) charges will apply. New minimum period requirements will be established for the new UNI rate element. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued UNI elements.

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**ACCESS SERVICE**

10. Public Packet Data Network (cont'd)

10.1 Ethernet Service (cont'd)

10.1.4 Rate Regulation (cont'd)

(B) Types of Rates and Charges (cont'd)

(2) Nonrecurring Charges (cont'd)

(c) Moves

A move involves a change in the physical location of one of the following:

- The Point of Termination at the customer's premises
- The customer's premises

The charges for moving UNI elements are dependent on whether the move is to a different location within the same building, to a different building within the same SWC, or to a different building in a different SWC. The charges specified below apply in addition to any applicable charges for moving any applicable Special Access Services as specified in Section 7.2.3, preceding.

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(i) Moves Within the Same Building – Type I only

The charge for moving a UNI within the same building will be the applicable labor rates specified in 15.5.3.

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**ACCESS SERVICE**10. Public Packet Data Network (cont'd)

## 10.1 Ethernet Service (cont'd)

## 10.1.4 Rate Regulation (cont'd)

## (B) Types of Rates and Charges (cont'd)

## (2) Nonrecurring Charges (cont'd)

## (c) Moves (cont'd)

## (ii) Moves To a Different Building Within the Same SWC

The move of a UNI or EEF will be treated as a discontinuance and start of service. Associated nonrecurring (i.e., installation) charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges and any previously waived construction charges for the discontinued service. (T)

## (iii) Moves to a Different Building in a Different Central Office Hub

A move to a different building in a different Central Office Hub will be treated as a discontinuance and start of service of all associated ES elements. Associated nonrecurring (i.e., installation) charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges and any previously waived construction charges for the discontinued service. (T)

**ACCESS SERVICE**10. Public Packet Data Network (cont'd)

## 10.1 Ethernet Service (cont'd)

## 10.1.4 Rate Regulation (cont'd)

## (C) Minimum Periods

The minimum periods for ES rate elements are:

- Twelve months for UNI
- Twelve months for EEF
- Twelve months for EVC
- Twelve months for Multipoint CEN

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## 10.1.5 ES Term Discount Plan

An optional term discount plan is available for Ethernet Service. Under the ES Term Discount Plan, the monthly rates for eligible ES service elements are provided on an ICB basis by contacting the Telephone Company's Carrier Sales team at 608.664.6226 or [tdscarriersales@tdstelecom.com](mailto:tdscarriersales@tdstelecom.com).

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The customer must notify the Telephone Company in writing of the length of its selected term commitment period.

Access Order Charges as described in Section 15.5.3, do not apply to establish a new or make any changes to an existing ES Term Discount Plan.

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Except as specified in (A) and (B), below, discontinuance charges will apply when the customer fails to satisfy the term commitment period or the in-service requirements for its committed ES Service.



**ACCESS SERVICE**10. Public Packet Data Network (cont'd)

## 10.1 Ethernet Service (cont'd)

## 10.1.5 ES Term Discount Plan (cont'd)

At the end of the term commitment period, the customer may subscribe to a new ES Term Discount Plan commitment period or revert to month-to-month rates. If the customer does not notify the Telephone Company in writing of its choice by the end of its existing term commitment period, the Telephone Company will automatically convert the customer's ES billing to month-to-month rates. An Access Order Charge will not apply when a customer at the end of its existing term commitment period subscribes to a replacement ES Term Discount Plan or reverts to month-to-month rates.)

## (A) Plan Replacements

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When the term commitment period of a replacement ES Term Discount Plan does not meet or exceed the number of months remaining in the customer's existing ES Term Discount Plan commitment period, a discontinuance charge as described in (B), below, will apply.

## (B) Discontinuance Charges

The discontinuance charge will be equal to 50% of the total undiscounted monthly rate for each rate element for each month remaining in the unsatisfied term commitment period. Charges will include UNI, EEF, EVC & CEN rates plus all previously waived installation, construction or order charges. Minimum service period charges as specified in Section 10.1.4(C), preceding, would also apply, if applicable.

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## ACCESS SERVICE

15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service15.3.2 Recurring Charges

(A)	<u>Switched Access Service Charge, Per Access Minute</u>	<u>Rate</u>	
	End User Access		
	- Illinois		
	--Rockford Market		
	Originating, per MOU	\$0.003595	
	Terminating, per MOU		
	-End Office	\$0.001827	(R)
	-Transport	\$0.000108	
	--Libertyville Market		
	Originating, per MOU	\$0.003693	
	Terminating, per MOU		
	-End Office	\$0.001827	(R)
	-Transport	\$0.000206	
	- Michigan		
	--Ann Arbor Market		
	Originating, per MOU	\$0.003616	
	Terminating, per MOU		
	-End Office	\$0.001827	(R)
	-Transport	\$0.000130	
	--Grand Rapids Market		
	Originating, per MOU	\$0.003590	
	Terminating, per MOU		
	-End Office	\$0.001827	(R)
	-Transport	\$0.000104	
	--Lansing		
	Originating, per MOU	\$0.003574	
	Terminating, per MOU		
	-End Office	\$0.001827	(R)
	-Transport	\$0.000087	
	- New York		
	Originating, per MOU	\$0.004125	
	Terminating, per MOU		
	-End Office	\$0.001906	(R)
	-Transport	\$0.000031	

## ACCESS SERVICE

15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service15.3.2 Recurring Charges

	<u>Rate</u>	
(A) <u>Switched Access Service</u> <u>Charge, Per Access Minute (Continued)</u>		
End User Access (Continued)		
- Wisconsin		
- Appleton Market		
Originating, per MOU	\$0.003545	
Terminating, per MOU		
- End Office	\$0.001827	(R)
- Transport	\$0.000058	
- New Berlin Market		
Originating, per MOU	\$0.003587	
Terminating, per MOU		
- End Office	\$0.001827	(R)
- Transport	\$0.000100	
- Madison Market		
Originating, per MOU	\$0.003561	
Terminating, per MOU		
- End Office	\$0.001827	(R)
- Transport	\$0.000075	
- Middleton Market		
Originating, per MOU	\$0.003321	
Terminating, per MOU		
- End Office	\$0.002784	
- Transport	\$0.000537	
- Minnesota & North Dakota		
Originating, per MOU	\$0.003866	
Terminating, per MOU		
- End Office	\$0.001113	(R)
- Transport	\$0.001145	

**ACCESS SERVICE****15. RATES AND CHARGES – TDS METROCOM (Continued)****15.5 Other Services (Continued)****15.5.1 Access Ordering****Charge****(E) Expedite Service Order Charge****(T)**

The Expedite Service Order Charge will apply in addition to the Access Order Charge on a per order basis for each order requesting an expedited service date.

Per Order, Type 1	\$50.00
Per Order, Type 2	\$200.00
Per Order, Type 3	\$1,000.00

**(F) Cancellation Charge****(T)**

Per Order, Type 1	\$350.00
Per Order, Type 2	\$500.00
Per Order, Type 3	\$1,000.00

**15.5.2 Additional Engineering****Each Half  
Hour or  
Fraction  
Thereof****Additional Engineering  
Periods – All Markets except MN & ND**

(A) Basic Time per engineer normally scheduled working hours

**\$32.50**

(B) Overtime per engineer outside of normally scheduled working hours

**\$50.00\*****(T)**

(C) Premium Time outside of scheduled work day, per engineer

**\$75.00\*****(T)**

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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**ACCESS SERVICE****15. RATES AND CHARGES – TDS METROCOM (Continued)****15.5 Other Services (Continued)****15.5.2 Additional Engineering**

<u>Additional Engineering Periods – MN &amp; ND Markets</u>		<u>Each Half Hour or Fraction Thereof</u>	
(A)	Basic Time per engineer normally scheduled working hours	\$17.19	
(B)	Overtime per engineer outside of normally scheduled working hours	\$25.78*	(T)
(C)	Premium Time outside of scheduled work day, per engineer	\$34.38*	(T)

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\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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