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5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE

A. GENERAL

1. Ameritech Central Office Information Manager Service is a Central Office Local Area Network (C.O. LAN) data communications network. This service is an intra customer, intralATA Central Office network service that provides data switching using standard telephone twisted pair wiring. Centrex Service or Integrated Information Network Service (IIN) provides the voice functionality for Ameritech Central Office Information Manager Service.
2. Ameritech Central Office Information Manager Service can only be provided from Central Offices equipped for this service, subject to the technical limitations of such equipment, and the availability of appropriate facilities.
3. Providing Ameritech Central Office Information Manager Service, and the method of providing Ameritech Central Office Information Manager Service, will be at the option of the Company.

B. DESCRIPTION

1. Ameritech Central Office Information Manager Service is a data communications network service that provides for the interconnection of customer-provided data devices and the transmission of data between such devices. This service will support customer-provided asynchronous and binary synchronous data terminals and host computers and is capable of switching terminal to terminal, terminal to host computers and host computer to host computer data traffic at asynchronous speeds up to 19.2 kilobits per second (kbps) and binary synchronous speeds up to 56 kilobits per second (kbps).
2. Ameritech Central Office Information Manager Service is primarily accessed by means of a customer-provided Data/Voice Multiplexer (DVM) via Centrex/IIN exchange facilities. The DVM provides the connectivity to the customer-provided voice and data terminals and multiplexes their respective signals simultaneously to the compatible DVM, located in the Company's Central Office. This service also provides access to the telecommunications network via an optional data facility pooling arrangement or dedicated communication channels.

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)

C. SERVICE ELEMENTS, STANDARD FEATURES, AND OPTIONAL FEATURES

1. Service Elements

Asynchronous Host Port - Data Switch Termination (port), located in the Company's Central Office, including the common equipment associated with the Data Switch, which provides for incoming and outgoing asynchronous data transmission up to 19.2 kbps between the Data Switch and the customer-provided data equipment, e.g., host computers. Each Data Switch Termination (port) requires a Transport Termination and Transport Service.

Asynchronous Terminal Port - Data Switch Termination (port), located in the Company's Central Office, including the common equipment associated with the Data Switch, which may provide for incoming and outgoing asynchronous data transmission up to 19.2 kbps between the Data Switch and customer-provided data terminal equipment primarily designated as peripheral equipment, e.g., data terminals, personal computers, printers. Each Data Switch Termination (port) requires a Transport Termination and Transport Service.

Binary Synchronous Host Port - Data Switch Termination (port), located in the Company's Central Office, including the common equipment associated with the Data Switch, which provides switched Binary Synchronous Communications data transmission between the Data Switch and the customer-provided data equipment, e.g., host computers. Each Data Switch Termination (port) requires a Transport Termination and Transport Service.

Binary Synchronous Terminal Port - Data Switch Termination (port), located in the Company's Central Office, including the common equipment associated with the Data Switch, which provides switched Binary Synchronous Communications data transmission between the Data Switch and customer-provided data equipment, e.g., data terminals, personal computers, printers. Each Data Switch Termination (port) requires a Transport Termination and Transport Service.

Data Facility Pooling - Modem ports located in the Company's Central Office, including common equipment associated with the Data Switch. This arrangement provides the ability to transmit data to and receive data from non-Ameritech Central Office Information Manager Service group destinations via dedicated Central Office based dial-up asynchronous transmission data facility pool connections. Each dial-up modem port in the Central Office requires an exchange facility.

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)
C. SERVICE ELEMENTS, STANDARD FEATURES, AND OPTIONAL FEATURES (Cont'd)
1. Service Elements (Cont'd)

Data Switch Termination - Termination interface equipment resident in the Central Office based Data Switch that provides the necessary protocol and functionality to interact with customer-provided data terminal equipment and host computers.

Data/Voice Multiplexer (DVM) - The DVM provides for the simultaneous transmission of both voice and data over a Centrex/IIN exchange line facility.

Dedicated Data Switch Interface Termination (Port) - Trunk module interface termination (port), located and terminated in the Company's Central Office, including the common equipment associated with the Data Switch, which provides for data transmission via communications channel between the Data Switch and another Data Switch located and terminated in the Company's Central Office. Each Dedicated Data Switch Interface Termination (port), requires a Transport Termination and Transport Service.

Transport Service - The communication channel(s) between the Data Switch located in the Company's Central Office and the customer's premises.

Transport Termination - Termination equipment located in the Company's Central Office; Data Voice Multiplexer (DVM), Data Service Unit (DSU) or Modem that provides the transport termination for either binary synchronous or asynchronous data transmission using various speed configurations.

2. Standard Features

Closed User Groups - Customer user terminals groups which have defined access to customer Service Names.

CRT Keyboard Dialing - A menu driven or prompt interface for call access to other data ports. Status messages are provided for each call attempt.

Data Call Disconnect - An arrangement that provides disconnection of a data call after logging out of a far-end session, and returning to the data call command menus.

Dial by Name - An arrangement that provides access to specific computer ports by typing the port name.

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)
C. SERVICE ELEMENTS, STANDARD FEATURES, AND OPTIONAL FEATURES (Cont'd)
2. Standard Features (Cont'd)

Disconnect Delay - An arrangement that provides for the delay of the connection of a new user to a computer port to ensure that the former user is completely logged off.

Far End Disconnect Supervision - Automatic disconnect of one end of a data connection when the other end disconnects; specifically used in modem pooling arrangements.

Flow Control Supervision - Configuration of the system to supervise flow control, allowing each device and each direction to the connection to have independently configured flow control.

Hunt Groups - An arrangement that allows for called host or terminal resources to be combined into "hunt groups" that may be given a common service name, e.g., Payroll.

Hunt Groups for Shared Port Access - An automatic search of a group of shared ports to find an available port in response to a connection request.

Service Names - A destination name or number that is entered at a terminal to request a connection to some host or terminal port.

Simultaneous Voice and Data Connection - The capability to simultaneously place a voice call and data call.

3. Optional Features

Alternate Access - An arrangement that allows designation of an alternate host to be used to complete a call in the event the primary host is out of service.

Secured Access - An arrangement that allows asynchronous and binary synchronous hosts to be password protected prior to allowing a user(s) access.

Session-Hold - An arrangement that allows asynchronous and binary synchronous terminals to be simultaneously in session with multiple hosts, but having only one session active at a time (up to four sessions per asynchronous/binary synchronous terminal ports).

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)

C. SERVICE ELEMENTS, STANDARD FEATURES, AND OPTIONAL FEATURES (Cont'd)

3. Optional Features (Cont'd)

Terminal Call Answer - Terminal Call Answer enables asynchronous terminals to receive calls from other terminals and hosts.

D. REGULATIONS

1. Provision of Service

- a. Ameritech Central Office Information Manager Service is only offered in association with Centrex Service, IIN Service, and Dedicated Communication Channels.
- b. Ameritech Central Office Information Manager Service requires that the customer provide all modems, Data/Voice Multiplexers (DVM) and/or Digital Service Units (DSU) located at their premises. All customer-provided equipment must also be compatible with the Company provided Central Office equipment.
- c. Central Office loops, extended from the Central Office to the Standard Network Interface (SNI) at the customer's premise, must comply with the technical specifications as noted in the Interface Specifications in 8. following.
- d. Data Facility Pooling numbers or names are dedicated to a specific customer for access by the customer's designees only.
- e. Customer-provided terminals/host and Data Facility Pooling modem ports each require an exchange facility or dedicated communication channel.
- f. Moves of Centrex/IIN Line changes associated with Deluxe Feature Group II (DFG II) Service will affect only the line number and not the data portion of the line.

2. Temporary Suspension of Service

Temporary Suspension of Service is not offered with Ameritech Central Office Information Manager Service.

3. Initial Service Periods

The Initial Service Period is twelve months for customers that elect the one month payment period.

Material formerly appeared in P.S.C. of W. No. 1 in Section 114 on Page 13, Release 1.0

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)
D. REGULATIONS (Cont'd)

4. Payment for Service

Optional Term Payment Plan (OTPP)

Ameritech Central Office Information Manager Service is offered under the Optional Term Payment Plan (OTPP) as specified in E. following. Customers may select the one month, thirty-six month, or sixty month optional payment periods.

5. Mileage

Mileage charges are applicable, as specified in Part 15 for Dedicated Communications Services, for dedicated channels required to connect network elements.

6. Cancellation of Service

In the event of a customer initiated cancellation of equipment and facilities before completion, or after installation is complete, but prior to service being established, the loss on equipment and facilities in the process of building or being installed, cost of installation labor, cost of removal and other expenses, not to exceed the Service Establishment Charge, will apply. In addition, Service Connection Charge(s) as specified in Part 3, Section 1, of this guidebook may also be applicable.

7. Access Codes

The customer is responsible for the distribution of access codes, e.g., passwords to authorized users.

5. CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)

- D. Regulations (Cont'd)
- 8. Central Office Information Manager Service Interface Specifications
 - a. Data/Voice Multiplexers (DVM)

The Customer Premises Equipment (CPE) must comply with the specifications contained in Part 68 of the FCC's Rules and Regulations when the FCC adopts registration rules applicable to this service.

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- E. Optional Term Payment Plan (OTPP)

- 1. Description
 - a. The Central Office Information Manager is offered under an Optional Term Payment Plan (OTPP).
 - b. The OTPP allows a customer to pay a fixed rate over one of several optional payment periods.
 - c. A payment period is the period of time selected by the customer from those currently offered by the Company over which a specific rate is paid.
 - d. During the effective term of the selected payment period, the contracted for monthly rate on a payment period of longer than one month payment period, is not subject to a rate increase initiated by the Company.

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)
E. OPTIONAL TERM PAYMENT PLAN (OTPP) (Cont'd)

2. Regulations

- a. At the time a customer subscribes to OTPP, all Services in the service group must be covered by the same term payment plan.
- b. An existing customer may expand their service and retain the OTPP if existing capacity is available. Such additions will be made at the option of the Company and at the current rates in effect for the one-month payment period.
- c. An OTPP customer that selects a payment period exceeding one month assumes a commitment for the service group that is contracted for at the time OTPP becomes effective. A customer who reduces service and does not disconnect the entire service will continue to pay an amount equal to the contracted rates at the time the customer entered into the OTPP.
- d. When rearrangements of equipment left in service are required as a result of a partial discontinuance, the expense incurred by the Company for such rearrangements will be billed to the customer at cost plus 25 percent contribution or at the option of the customer, termination charges on the entire installation will be billed to the customer and a new contract period for the service as rearranged will commence.
- e. A customer that selects a payment period exceeding one month and disconnects the entire service group will pay an amount determined by the application of the following formula for the service group equipment:

Number of Ports/Modems Disconnected Below the Level of Commitment	The Difference Between the Customer's Selected OTPP Monthly Rate and 125% of the One Month Payment Period Monthly Rate	Number of Months from the Time the Customer Entered Into the OTPP
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- f. Prior to the completion of the current payment period, any other available payment period at then current guidebook rates may be selected. Except as specified in i. below, the customer will begin paying the new period rates on the day following the expiration of the prior payment period.

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)

E. OPTIONAL TERM PAYMENT PLAN (OTPP) (Cont'd)

2. Regulations (Cont'd)

g. If the customer does not elect an available OTPP period at the completion of the current payment period and does not request discontinuance of service, service will be continued at the then current rates for the one month payment period. The one month payment charges/rates will be subject to rate adjustments.

h. Temporary suspension of Ameritech Central Office Information Manager Service is not offered with OTPP.

i. An existing Ameritech Central Office Information Manager Service customer may extend their existing OTPP payment period only once subject to the following conditions:

The duration for the Extended Payment Period Agreement may not be less than 12 months or greater than 60 months following the expiration of the existing OTPP payment period. Extensions are permitted for any of time between 12 months and 60 months.

An existing OTPP customer that elected the 36 Month Optional Payment Period may subscribe to the 60 Month Optional Payment Period only by 60 month Extended Payment Period Agreement.

When an existing OTPP payment period is extended, the lower Monthly Optional Payment Period rates, if applicable, will become effective on the date the Extended Payment Period Agreement is signed. Such rates are not retroactive.

Regulations applicable to the 36 month or 60 month Optional Payment Periods are also applicable to Extended Payment Periods.

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)

F. RATES AND CHARGES

1. The following charges and rates are in addition to the rates and charges for any other services to furnish a communications system.
2. Non-recurring Charges
 - a. Service Establishment Charge, Subsequent System Expansion Charge and Port Establishment Charge.

The Service Establishment Charge is applicable at the time service is established. The Subsequent System Expansion Charge is applicable at the time existing service is expanded:

The Port Establishment Charge is applicable at the time a port is established.

<u>USOC</u>	<u>NON-RECURRING CHARGE</u>
Service Establishment Charge, Per system, per customer	\$375.00
Subsequent System Expansion Charge, Per customer request	215.00
Port Establishment Charge, per port	12.00

b. Feature Translation Charge

The Feature Translation Charge is applicable on a per port basis for the translation(s) (software) to provide subsequent service functionality. The Feature Translation Charge is applicable to add service functionality, rearrange service functionality and delete service functionality.

<u>USOC</u>	<u>NON-RECURRING CHARGE</u>
Feature Translations Charge, Per port, per order	\$10.00

c. Rearrangement Charge

The Rearrangement Charge is applicable on a per port basis when a port connection is moved from one facility to another. If translations are required, the Feature Translation Charge is also applicable.

<u>USOC</u>	<u>NON-RECURRING CHARGE</u>
Rearrangement Charge, Per port	\$30.00

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)

F. RATES AND CHARGES

3. Rate Schedule

	USOC	Install Charge	Optional Payment Periods				
			1 Month	36 Month	60 Month		
<u>a. Asynchronous Host Service</u>							
1) Asynchronous Host Port							
a) Data Switch Terminations Up to 9.6 kbps							
1-30 Terminations, each	LZV1+	\$ 70.00	\$18.00	\$17.00	\$15.50		
1-75 Terminations, each	LZV2+	70.00	18.00	16.50	15.00		
Over 75 Terminations, each	LZV3+	70.00	18.00	15.00	14.25		
19.2 kbps, each							
1-30 Terminations, each	LZV1F	140.00	29.00	28.00	27.00		
1-75 Terminations, each	LZV2F	140.00	29.00	27.50	26.50		
Over 75 Terminations, each	LZV3F	140.00	29.00	25.00	24.00		
2) Transport Terminations - See g.							
3) Transport Service - See h.							
4) Optional Asynchronous Host Features							
a) Alternate Access	NPZAH	No	3.00	3.00	3.00		
b) Secured Access	NPVAH	No	2.00	2.00	2.00		

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)
 F. RATES AND CHARGES (Cont'd)
 3. Rate Schedule (Cont'd)

	<u>USOC</u>	<u>Optional Payment Periods</u>				
		<u>Install Charge</u>	<u>1 Month</u>	<u>36 Month</u>	<u>60 Month</u>	
<u>a. Asynchronous Host Service</u>						
1) Asynchronous Host Port						
a) Data Switch Termination Up to 9.6 kbps 1-40 Terminations, each 1-100 Terminations, each Over 100 Terminations, each 19.2 kbps, each 1-40 Terminations, each 1-100 Terminations, each Over 100 Terminations, each	LZT1+	\$ 60.00	\$14.00	\$13.50	\$12.75	
	LZT2+	60.00	14.00	13.00	12.00	
	LZT3+	60.00	14.00	12.00	10.50	
	LZT1F	120.00	25.00	24.00	22.00	
	LZT2F	120.00	25.00	23.50	21.50	
	LZT3F	120.00	25.00	22.00	20.50	
	2) Transport Terminations - See g.					
	3) Transport Service - See h.					
	4) Optional Asynchronous Terminal Features					
	a) Session Hold	NPHAT	No	3.00	2.75	
	b) Terminal Call Answer	NPKAT	No	4.00	3.50	
					2.75	

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)
 F. RATES AND CHARGES (Cont'd)
 3. Rate Schedule (Cont'd)

	<u>USOC</u>	<u>Optional Payment Periods</u>				
		<u>Install Charge</u>	<u>1 Month</u>	<u>36 Month</u>	<u>60 Month</u>	
c. <u>Binary Synchronous Host Service</u>						
1) Binary Synchronous Host Port						
a) Data Switch Terminations						
Up to 9.6 kbps						
1-20 Terminations, each	LZK1+	\$175.00	\$65.00	\$ 63.50	\$61.00	
1-40 Terminations, each	LZK2+	175.00	65.00	61.50	59.00	
Over 40 Terminations, each	LZK3+	175.00	65.00	59.00	56.00	
19.2 kbps						
1-20 Terminations, each	LZK1F	230.00	85.00	83.00	79.50	
1-40 Terminations, each	LZK2F	230.00	85.00	80.00	77.00	
Over 40 Terminations, each	LZK3F	230.00	85.00	76.00	73.00	
56 kbps						
1-30 Terminations, each	LZK1G	875.00	260.00	257.00	245.00	
1-50 Terminations, each	LZK2G	875.00	260.00	249.00	237.00	
Over 50 Terminations, each	LZK3G	875.00	260.00	230.00	220.00	
2) Transport Terminations - See g.						
3) Transport Service - See h.						
4) Optional Binary Synchronous Host Features						
a) Alternate Access						
b) Secured Access	NPZSH	No	3.00	3.00	3.00	
	NPVSH	No	2.00	2.00	2.00	

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)
 F. RATES AND CHARGES (Cont'd)
 3. Rate Schedule (Cont'd)

	<u>USOC</u>	<u>Optional Payment Periods</u>			
		<u>Install Charge</u>	<u>1 Month</u>	<u>36 Month</u>	<u>60 Month</u>
d. <u>Binary Synchronous Terminal Service</u>					
1) Binary Synchronous Terminal Port					
a) Data Switch Terminations Up to 9.6 kbps					
1-30 Terminations, each	LZH1+	\$145.00	\$55.00	\$53.50	\$50.00
1-50 Terminations, each	LZH2+	145.00	55.00	52.00	49.00
Over 50 Terminations, each	LZH3+	145.00	55.00	48.00	46.00
19.2 kbps					
1-30 Terminations, each	LZH1F	225.00	75.00	73.00	70.00
1-50 Terminations, each	LZH2F	225.00	75.00	71.00	68.00
Over 50 Terminations, each	LZH3F	225.00	75.00	67.50	65.00
56 kbps					
1-30 Terminations, each	LZH1G	850.00	250.00	245.00	235.00
1-50 Terminations, each	LZH2G	850.00	250.00	237.00	227.00
Over 50 Terminations, each	LZH3G	850.00	250.00	227.00	218.50
2) Transport Terminations - See g.					
3) Transport Service - See h.					
4) Optional Binary Synchronous Terminal Features					
a) Session Hold	NPHSH	No	3.00	2.75	2.50

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)
 F. RATES AND CHARGES (Cont'd)
 3. Rate Schedule (Cont'd)

	<u>USOC</u>	<u>Optional Payment Periods</u>			
		<u>Install Charge</u>	<u>1 Month</u>	<u>36 Month</u>	<u>60 Month</u>
e. <u>Data Facility Pooling</u>					
1) Modem Port Up to 9.6 kbps, each	SHBX+	\$ 75.00	\$ 15.00	\$ 14.50	\$ 14.00
2) Transport Terminations - See g.					
3) Transport Service - See h.					
f. <u>Dedicated Data Switch Interface Service</u>					
1) Dedicated Data Switch Interface Termination Port Up to 56 kbps, each 1.544 mbps, each Virtual Logical Channel, each	SHDX+ SHDXH VL5XX	1400.00 750.00 No	335.00 235.00 .50	325.00 225.00 .45	320.00 220.00 .40
2) Transport Terminations - See g.					
3) Transport Service - See h.					

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)
 F. RATES AND CHARGES (Cont'd)
 3. Rate Schedule (Cont'd)

	USOC	Optional Payment Periods			
		Install Charge	1 Month	36 Month	60 Month
g. <u>Transport Terminations for:</u> <u>Asynchronous Service</u> <u>Binary Synchronous Service</u> <u>Data Facility Pooling</u> <u>Dedicated Data Switch</u> <u>Interface Service</u>					
1) Transport Terminations					
a) Exchange Terminations					
(Termination on DVM) Analog, up to 19.2 kbps, each	VXMAA	\$10.00	\$ 8.00	\$ 7.75	\$ 7.50
(Termination on Dial-up Modem) Analog, up to 9.6 kbps		See P.S.C. of W.20, Part 6, Section 2, Packet Switched Network			
b) Dedicated Communication Channel Terminations					
(Termination on Modem) Analog, up to 19.2 kbps		See P.S.C. of W.20, Part 6, Section 2, Packet Switched Network			
(Termination on Data Service Unit) Digital, up to 56 kbps		See P.S.C. of W.20, Part 6, Section 2, Packet Switched Network			
(Termination on Data Service Unit) Digital, 1.544 mbps, each	VXD15	50.00	95.00	90.00	85.00

5. OBSOLETE AMERITECH CENTRAL OFFICE INFORMATION MANAGER SERVICE (Cont'd)

- F. RATES AND CHARGES (Cont'd)
- 3. Rate Schedule (Cont'd)

- h. Transport Service for:
Asynchronous Service
Binary Synchronous Service
Data Facility Pooling
Dedicated Data Switch
Interface Service

1) Transport Service

a) Exchange Service

Analog

See P.S.C. of W. 20, Part 5, Section 2, (IIN Service) and
Part 20, Section 5, (Centrex Service)

Modem Pooling

See P.S.C. of W. 20, Part 4, Section 2, Basic Exchange Service
See P.S.C. of W. 20, Part 5, Section 2, (IIN Service) and
Part 20, Section 5, (Centrex Service)

b) Dedicated Communications Channels

Analog

See P.S.C. of W. 20, Part 15, Section 2, BELL Channel Service,
Type 3060, 3061 or 3062 Channel

Digital

See P.S.C. of W. 20, Part 15, Section 3, Ameritech Base Rate Service

Digital

See P.S.C. of W. 20, Part 15, Section 3, Ameritech DS1 Service

7. DIGITAL TRANSPORT SERVICE (DTS)

A. Service Description

Digital Transport Service (DTS) provides a cost effective method of delivering voice grade service from the serving Central Office to a customer's premises. DTS is provided exclusively with DS1 Service (1.544 Mbps) and the 24 channels may be used for the transport of trunks for termination on customer provided equipment. DTS supports Direct Inward Dialing (DID) Service, Ameritech ValueLink Premier Service, Dedicated Custom 800 Service, and Local Exchange Business Trunks. TOUCH-TONE is a required feature of DTS.

B. Regulations

1. DTS is offered in two serving arrangements, Integrated and Non-Integrated, from Central Offices where the Company has arranged facilities for such service.
 - a. Integrated Service is an arrangement that allows for the direct termination of digital trunks from a digital Central Office to customer provided equipment. This arrangement supports Trunk side features only. The Integrated Arrangement is comprised of three elements: (1) Trunk Terminations; (2) DS1 Distribution Channel; and (3) Digital Interface Termination.
 - b. Non-Integrated Service is an arrangement that allows for the termination of PBX trunks from an Analog or Digital Central Office to customer provided equipment. This arrangement supports Trunk side and Line side features on those trunks. This arrangement is comprised of three elements: (1) Trunk Terminations; (2) DS1 Digital Distribution Channel; and (3) Central Office Multiplexing.
2. Serving arrangements that require a mixture of Integrated and Non-Integrated terminations are provided as Non-Integrated Service.
3. The rate structure for DTS requires charges for Trunk Terminations, a DS1 local distribution channel, DS1 central office multiplexing or Digital Interface Termination (as required) and End User Common Line Charges (EUCL).
4. Additional charges for Central Office services and features such as Direct Inward Dialing (DID) Service, Ameritech ValueLink Premier Service and Dedicated Custom 800 Service are applicable when appropriate, as identified in the guidebooks referenced in D following.

7. DIGITAL TRANSPORT SERVICE (DTS) (Cont'd)
B. Regulations (Cont'd)

5. All signals generated by Network Channel Terminating Equipment (NCTE) must comply with the signal and format constraints contained in Telcordia Publication TR-NPL-000054. Performance parameters for DTS can be found in Ameritech Technical Reference manual AM TR-TMO-000101.
6. Availability and functionality of DTS may vary by serving Central Office and switch type. The Company will determine when Integrated or Non-Integrated terminations are required and whether DTS can be provisioned with the customer's service and equipment.
7. If changes in Central Office technology permit the Company to convert a customer's Non-Integrated Termination to an Integrated Termination, the customer's rate will be adjusted to reflect the Integrated Termination rates.
8. Clear Channel Capability is an optional feature of DTS, allowing the customer to transport 1.536 Mbps on a 1.544 Mbps line with no constraint on quantity or bit sequence.

C. Rates and Charges

1. The rates and charges for the services provisioned on the DTS channels are specified below.
2. Rates and charges for DS1 (1.544 Mbps) Service are specified in Part 15, Section 3, as identified below, and are in addition to the charges specified in this section.
3. Calls will be subject to usage charges for the services provisioned on the DTS channels. Local Message charges apply to Local Service Area calls and Message Telecommunications charges apply to calls outside the Local Service Area.
4. Termination charges are applicable for DS1 Service and Central Office Multiplexing, as specified in Part 15, Section 3.
5. Month-to month service subscribers are subject to Company initiated rate charges.

7. DIGITAL TRANSPORT SERVICE (DTS) (cont'd)**C. Rates and Charges**

		Nonrecurring Charge	Month- to-Month
6.	Integrated Service Arrangement Rates		
a.	DS1 Facility ^{/1/}		
b.	Digital Interface Termination /F12/		\$2,770.00 (I)
c.	Per Trunk Termination		
	- PBX Trunk /D5WPP/	60.00 (I)	
	- DID Trunk /D5WPD/	60.00 (I)	
	- Toll Terminal /D5WPT/	6.50	
	- Dedicated 800 /D5WP1/	5.00	
	- Ameritech ValueLink Premier Service /D5WPO/	6.50	
d.	Subsequent Addition/Rearrangement Charge per trunk termination ^{/2/} /NR9DT/		\$10.00
7.	Non-Integrated Service Arrangement Rates		
a.	DS1 Facility ^{/1/}		
b.	Central Office Multiplexing ^{/1/}		
c.	Per Trunk Termination		
	- PBX Trunk /D5WPP/	60.00 (I)	
	- DID Trunk /D5WPD/	60.00 (I)	
	- Toll Terminal /D5WPT/	6.50	
	- Dedicated 800 /D5WP1/	5.00	
	- Ameritech ValueLink Premier Service /D5WPO/	6.50	
d.	Subsequent Addition/Rearrangement Charge per trunk termination ^{/2/} /NR9DT/		10.00

^{/1/} See tariff reference in Section D following.^{/2/} Apply a Service Order Charge as specified in Part 3, Section 1.

7. DIGITAL TRANSPORT SERVICE (DTS) (Cont'd)

D. Service References

The rates and charges in C. preceding provide for the Digital transport facility, multiplexing (as required) and the interface connection to the network. The additional rates and charges applicable for the specific services that can be provisioned on DTS channels can be found in the tariff references listed below.

<u>Service</u>	<u>Tariff Reference</u>
DS1 Service	Dedicated Communications Services, Part 15, Section 3
Ameritech ValueLink Premier Service	Part 9 of this Guidebook
Central Office Multiplexing	Dedicated Communications Services, Part 15, Section 3
Dedicated Custom 800 Service	Part 10, Section 2, of this Guidebook
Direct Inward Dialing (DID) Service	Part 6, Section 1 of this Guidebook
End User Common Line Charges	Ameritech Operating Companies Access Services Tariff, F.C.C. No. 2, Section 4.1.7(c)
Local Message Charges/Extended Community Calling Charges	Part 4 of this Guidebook
Message Telecommunications Service	Part 9 of this Guidebook

1. PACKET SWITCHED NETWORK ISDN X.25, and DEDICATED X.75

1.1 GENERAL DESCRIPTION

The Packet Switched Network (PSN) combines packet switching technology and digital transmission facilities to provide a switched data carriage service. The PSN is designed to provide economical, usage-sensitive data transmission for a variety of interactive (or bursty) data applications. The PSN provides for simultaneous two-way transmission of data at speeds of up to 64 kilobits per second (Kbps). Customers can choose between the ISDN access arrangement which permits PSN switching to any PSN switch in the LATA and the X.75 ISDN Interface Dedicated Access arrangement whose PSN switching is limited to a single ISDN switch in a LATA.

With packet switching technology, data streams are packetized and then moved through the network to their destinations. The packet network examines, routes and transports packets individually without maintaining a physical path between bursts of data. In this way, greater volumes can be transported through shared network transmission facilities and individual data packets can be sent on alternate routes as the need arises, resulting in better system performance and higher network availability. The reduction in network facilities results in a more economical form of data transmission for interactive applications.

The PSN will support communication between data terminal equipment (DTE) with like protocols.

PSN Service is only available where facilities and equipment permit.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)

1.2 GENERAL DEFINITIONS

Call Acceptance Packet - Packet sent from terminating NTN in response to call setup packet, indicating terminating NTN is ready to accept data transfer from the originating NTN.

Call Clear Packet - Packet used to terminate a call. This packet may be initiated by either the originating or terminating NTN, or by the network.

Call Origination - The point when network resources are initially allocated to the establishment of a specific switched virtual call.

Call Setup Packet - The first packet in each session containing the call request and call answer information. Call setup may consist of negotiated flow control parameters, the NUI code, terminating network address, reverse billing indicator and up to 12 data octets.

Call Termination - The point when network resources allocated to a specific switched virtual call are released for reuse by the network.

CCITT - International Telegraphy and Telephone Consultative Committee.

Customer Premises Equipment (CPE) - Communications devices, apparatus and their associated wiring, provided by a customer or user, which do not constitute a regulated communications system.

Data Circuit Terminating Equipment (DCE) - A modem or any other device used to convert digital signals to a format which can be transmitted over a given transmission medium.

Data Terminating Equipment (DTE) - Devices (such as terminals, clusters of terminals or a host computer) on the customer's premises, which transmit or receive asynchronous, synchronous, character or bit-oriented data messages.

Dedicated Access - A permanent connection to a port on the PSN.

Exchange Termination - A PSN network component linking the access line and the port termination.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)
1.2 GENERAL DEFINITIONS (Cont'd)

Fast Select - Allows for call setup, transmission of data and call clearing in a single exchange of packets. Each packet may contain up to 124 data octets, in addition to the call setup information.

Network Terminal Number (NTN) - Numeric character sequence used to identify the originating and terminating locations of each user's DTE.

Network User Identification (NUI) Code - A character string, with structure defined by the Company, used as a log-on ID.

Octet - Eight bits of information.

Packet - A continuous sequence of binary digits of information which is switched through the network as an integral unit.

Packet Assembler/Disassembler (PAD) - A component of the PSN that receives the transmissions from the customer's equipment, packetizes the information, concentrates the traffic and routes it to the PSN for delivery to a specified NTN. The PAD also receives information from the PSN and disassembles the packet before delivery to the terminating NTN.

Port Termination - An interface on the PAD or packet switch that provides an entry point into the PSN.

Segment - A continuous sequence of octets of information contained within a packet. A segment has a billable length of 64 octets of customer information.

Synchronous - A data transmission method where sending and receiving devices operate continuously in step with each other and are maintained by means of correction, if necessary, in a desired timing.

Virtual Circuit - A logical connection established as a result of call origination between two NTNs, that exists for a period of time until either DTE initiates the call termination.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)

1.3 REGULATIONS

In addition to the regulations set forth elsewhere in Company Guidebooks, the following regulations apply to Packet Switched Network Service.

1. Network User Identification (NUI) codes are assigned by the Telephone Company. One NUI code is provided per Network Terminal Number (NTN) when available upon request. Charges apply for each additional NUI code.
2. Idle time in excess of 20 minutes may generate a disconnect on all switched calls except Permanent Virtual Circuit Calls
3. ISDN access users may require conditioning of their exchange service facility as provided in other sections of this company's Guidebooks.
4. All charges for customer traffic originating or terminating on an X.75 port will be billed to that port. The X.75 customer will be responsible for billing the appropriate user.
5. If it becomes necessary to disrupt service for scheduled maintenance reasons, the disruption will occur between the hours of 2:00 a.m. to 6:00 a.m. on Sunday. The disruption period will be only for the amount of time necessary to complete the maintenance and in all cases will be held to a minimum. Except for this scheduled service interruption, a credit allowance for interruptions to service will be given in accordance with Part 15, Section 1, of this Guidebook.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)
- 1.3 Regulations (Cont'd)
6. The PSN requires the use of Customer Provided Equipment (CPE). This equipment, used in conjunction with the PSN port terminations, is subject to the limitations specified in the following Technical References:

<u>Protocol</u>	<u>Technical References</u>	<u>Sources</u>
X.75	AM-TR-NPL-000016	SBC
ISDN	AM-TR-OAT-000068	SBC

CPE used in association with the PSN is, in addition, subject to the limitations of the Technical References for Exchange Terminations. The following is a list of the Exchange Terminations available and their corresponding Technical References:

<u>Type</u> <u>Termination</u>	<u>Transmission</u> <u>Capability</u>	<u>Technical</u> <u>Reference</u>	<u>Source</u>
Digital	Up to 56 Kbps	AM-TR-NPL-000007	SBC
ISDN	Up to 64 Kbps	AM-TR-NPL-000068	SBC

Technical References may be obtained from:

APEX Support Team
(734) 523-7348

7. The 50% Evening, Weekend, and Holiday Discount is available in all comparably equipped central offices.
8. Verification of customer provided PADs and computer equipment may be required by the Company for PSN compatibility.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)

1.4 PSN ACCESS ARRANGEMENTS

Customers may gain access to the PSN by using the following options:

- ISDN (X.25)
- Dedicated (X.75)

A. ISDN

ISDN provides access to the PSN via the customer's 16 Kbps D channel or 64 Kbps B channel. All applicable ISDN exchange charges are billed to the ISDN customer's exchange service. Collect calls are not accepted by the PSN.

ISDN uses the following protocol:

- X.25

The applicable PSN elements are:

- Optional Features

The applicable PSN usage charges are:

- Data Transport Minutes of Use
- Data Transport Kilosegments
- Fast Select (if appropriate)

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)
1.4 PSN ACCESS ARRANGEMENTS (Cont'd)

B. DEDICATED

Dedicated Access provides a permanent connection to the PSN via a dedicated private line channel (available from appropriate Tariffs).

The following private line facilities are supported for Dedicated Access:

Digital - Requires a Company-provided Base Rate Service (as found in Part 15, Section 3, of this Guidebook) or a Direct Digital Service (DDS) Channel used for digital transmission (as found in Part 15, Section 1, of this Guidebook).

Dedicated Access provides call origination and termination capabilities at speeds up to 56 Kbps.

Dedicated Access provides the capability of transmitting data using the following communication protocols:

- X.75

The applicable PSN elements are:

- Exchange Termination
- Port Termination
- Fast Select (if appropriate)

The applicable PSN usage charges are:

- ISDN Interface Minutes of Use
- ISDN Interface Kilosegments
- Fast Select (if appropriate)

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)

1.5 PSN RATE ELEMENTS

A. EXCHANGE TERMINATIONS

Exchange Terminations are determined by the type of facility used to access the PSN. The exchange termination provides a Data Service Unit/Channel Service Unit function for digital access lines.

B. PORT TERMINATIONS

Port Terminations provide the communications interface for users accessing the PSN. They are protocol and speed specific. A NTN is provided at no charge with each Port Termination. The NTN assignment is independent of the customer's voice telephone number.

C. OPTIONAL FEATURES

Certain optional features and functions are available depending on the serving packet switch.

1. Call Redirection - Automatically redirects calls addressed to a primary DTE, to a secondary DTE when the primary DTE is not in service, busy or designated for call redirection due to network operator request. Call redirecting ends automatically when access to the primary DTE is again possible.
2. Closed User Group (CUG) - A private group of users that limits communications to members within the group. The CUG allows its members to transmit and receive calls, service type permitting, to and from other members within the CUG.
3. Direct Call - Enables a user to automatically establish a virtual call to a predetermined NTN.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)
- 1.5 PSN RATE ELEMENTS (Cont'd)
- C. OPTIONAL FEATURES (Cont'd)
 4. Fast Select Acceptance - Allows the customer to terminate fast select calls that originated from an end user's DTE. The fast select data is delivered to the terminating customer in the user data field of an incoming call packet. The terminating DTE then responds with either a call accepted packet or a call clear indication.
 5. Hunt Group - An association of ports with a single or multiple NTN(s). Two features are available. The homing feature allows terminating calls to be distributed sequentially over the ports. Non-homing allows terminating calls to be distributed equally over the ports.
 6. Multiple Network Terminal Numbers - Permits the user to have additional DTE addresses per port, thereby permitting incoming logical transmissions to be routed by the PSN to the appropriate DTE. The available quantity of this feature may be limited by the Company.
 7. Network User Identification (NUI) - A numeric character string, defined by the Company, used as a log-on ID. In the case of dedicated access, the NUI may correspond to the network address.
 8. Permanent Virtual Circuit - Establishes a logical channel between two NTNs and remains indefinitely in the data transfer mode.
 9. Reverse Charging Acceptance - Authorizes the terminating NTN to accept PSN usage and holding time charges from an originating NTN.

1.6 USAGE CHARGES

A. FAST SELECT

Fast Select allows for a call request, the transmission of data and call clearing in a single exchange of packets. These packets may contain up to 128 data octets in addition to the call request information.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)
1.6 USAGE CHARGES (Cont'd)

B. DATA TRANSPORT

Data Transport usage charges apply for ISDN Access Arrangements whose PSN switch can connect to any PSN switch in a LATA. ISDN Interface usage charges apply for X.75 Dedicated Access Arrangements where PSN switching is limited to a single ISDN switch in a LATA.

Customers who transmit an average of 2.0 kilosegments or less of data per logical session per minute can choose between minutes of use (MOU) and kilosegment billing. Customers who transmit greater than an average of 2.0 kilosegments per logical session per minute will be billed for kilosegments transmitted. The average kilosegments per minute will be calculated for the billing period for rating purposes.

The measurement of a MOU session begins upon receipt of the call acceptance packet and ends upon receipt of the call clear packet. The minimum initial MOU session is 7 tenths of a minute and additional usage is measured in tenths of minutes. MOUs will be accumulated for the billing period for rating purposes.

Kilosegment measurement counts the number of segments transmitted. A kilosegment is 1000 segments. A segment has a billable length of 64 octets of customer information. The minimum initial session is 40 segments and additional usage is measured in segments. Segments are totaled at the end of the billing period and rounded to the next whole kilosegment for rating purposes.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)
1.6. USAGE CHARGES (Cont'd)

C. ISDN INTERFACE

The ISDN Interface is for the purpose of allowing other networks to terminate directly onto an ISDN Integrated Packet Handler (IPH). This will give the other network access to the ISDN lines served by that IPH and only that IPH. They must connect on an X.75 port connection in addition to the digital private line.

D. EVENING, WEEKEND AND HOLIDAY DISCOUNTS

An evening, weekend and holiday 50% discount in rates will apply on the following:

- Data Transport Charge
- ISDN Interface Charge
- Fast Select (if appropriate)

The evening discount will apply for any portion of a call occurring Monday through Friday during the period from 4:00 P.M. up to but not including 7:00 A.M.

The weekend and Holiday 50% discount will apply for any portion of a call through the entire day¹.

1.7. NONRECURRING CHARGES

Nonrecurring Charges (NRCs) for Service Order, PSN Access facility, Exchange Termination and Optional Feature(s) apply for the installation of PSN Service.

Standard channel rearrangement charges apply for the rearrangement of PSN Access facilities. For other PSN service rearrangements, a Service Order charge and the NRC of the modified Exchange Termination and/or the added and/or modified Optional Feature(s) apply.

NOTE 1: The observed holidays are New Year's Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)

1.8 STANDARD FEATURE DEFINITIONS

Additional Logical Channels - A capability which enables one or more calls to be set up on a single facility. A PSN customer may subscribe to more than one logical channel per single facility to allow two or more simultaneous calls to take place.

- One-Way Logical Channel Incoming
Logical channel capable of receiving calls only.
- One-Way Logical Channel Outgoing
Logical channel capable of transmitting calls only.
- Two-Way Logical Channel
Logical channel capable of transmitting and receiving calls.

Auto Call - Enables a user to automatically establish a virtual call to a predetermined NTN. The user generates a preprogrammed call setup packet by merely powering up the DTE.

Default Throughput Class Assignment - Allows the selection of the default throughput class of 75, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 48000/56000 bps (largest class less than, or equal to, user line speed). This default value applies to all virtual calls and permanent virtual circuits at the DTE/DCE interface which do not perform per-call throughput class negotiation.

Flow Control Parameter Negotiation - Permits negotiation on a per-call basis, of the flow control parameters (packet size and window size for each direction of data transfer). This facility applies only to switched virtual calls.

- Packet Size Negotiation
Allows for negotiation of various packet sizes.
- Window Size Negotiation
Allows for window sizes of 1 to 7.

Incoming Calls Barred - Prohibits incoming virtual calls.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)
- 1.8. STANDARD FEATURE DEFINITIONS (Cont'd)

Non-standard Default Packet Size - Allows the selection of a default size, instead of the standard default packet size. The default value applies to all permanent virtual circuits and those virtual calls at the DTE/DCE interface which do not perform per-call flow control parameter (packet size) negotiation.

Non-standard Default Window Size - Allows the selection of the default size of 1 through 7, instead of the standard default window size of 2. This default value applies to all permanent virtual circuits and those virtual calls at the DTE/DCE interface which do not perform per-call flow control parameter (window size) negotiation.

Outgoing Calls Barred - Prohibits outgoing virtual calls.

Reverse Charging - Allows the originating NTN's PSN usage charges to be billed to the terminating NTN on a per session basis. Only if the terminating NTN is configured to accept charges will the call be set up.

Throughput Class Negotiation - Permits negotiation on a per-call basis, of the throughput class for each direction of data transfer associated with a virtual call. The network will allow a DTE to request a throughput class of 75, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 48000/56000 bps (largest class less than, or equal to, user line speed). If the requested throughput is not one of the specified values, the call will be cleared.

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)

1.9. RATES AND CHARGES

A. EXCHANGE TERMINATIONS

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
1. Digital			
- 9.6 Kbps	VXDD9	\$30.00	\$30.00
- 56 Kbps	VXD56	30.00	30.00

B. PORT TERMINATIONS

1. x.75 Protocol			
- 2.4 Kbps	LHT7C	---	25.00
- 4.8 Kbps	LHT7D	---	25.00
- 9.6 Kbps	LHT7E	---	25.00
- 19.2 Kbps	LHT7F	---	25.00
- 56 Kbps	LHT7G	---	25.00

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)
1.9. RATES AND CHARGES (Cont'd)

C. OPTIONAL FEATURES

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
1. Additional NUI, - each	LOGAX	\$ 5.00	---
2. Call Redirection, - per port	LRD	10.00	\$1.00
3. Closed User Group - per group - per member	LDJ LGJ	15.00 5.00	---
4. Direct Call, - per port	LJD	10.00	---
5. Fast Select Acceptance, - per port	LD5FS	10.00	---
6. Hunt Group, - per group	LDM	15.00	3.00
7. Additional NTN, - each	LDQ	10.00	---
8. Permanent Virtual Circuit, - each end	LDV	15.00	---
9. Reverse Charging Acceptance, - per port	LD4	10.00	---

1. PACKET SWITCHED NETWORK - ISDN X.25, and DEDICATED X.75 (Cont'd)
1.9. RATES AND CHARGES (Cont'd)

D. USAGE

	<u>USOC</u>	<u>RATE</u>
1. Fast Select per Request		\$.01
2. Data Transport Charge per 1/10 minute, or fraction thereof	HRBM1	.0015
3. ISDN Interface Charge per 1/10 minute, or fraction thereof	HRBMG	.0005
4. Data Transport Charge per Kilosegment	HRBKX	.24
5. ISDN Transport Charge per Kilosegment	HRBKG	.08

E. NON-RECURRING CHARGES

Non-recurring charges for Packet Switched Network services are applied on a per design order basis. Multi-element service connection charges contained in Part 3, Section 1, do not apply to these services.

The design order charge applies once per occasion of a customer's request for packet services of the same type at the same location.

	<u>Nonrecurring Charge</u>
- Subsequent changes (such as: addition or change of standard or optional features, activation of network addresses, addition or change of NUI codes, etc.), per location	\$65.00
Technical Assistance (such as verification of the customer's PAD or computer equipment for compatibility with the Packet Switched Network)	
- First hour	52.00
- Each additional quarter hour, or fraction thereof	13.00

1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E)

Digital Transport Service-Enhanced (DTS-E) will no longer be available to new customers (no current contract or service) on or after June 30, 2016. However, the Service will remain available for 9-1-1 Public Safety Answering Point (PSAP) customers that require channelization of their 9-1-1 trunking. It will be available to existing 9-1-1 PSAP users of the Service as well as new 9-1-1 PSAP customers needing the Service. With the noted 9-1-1- PSAP exception, customers having this service or who have placed orders which were accepted by the Company prior to this date, may continue such service from their present location, subject to the following conditions: new requests for physical changes to DTS-E, including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses will not be provisioned.

A. DESCRIPTION

Digital Transport Service - Enhanced (DTS-E) delivers voice grade service from a Company serving central office to a customer's premises. DTS-E is available in three serving arrangements, also known as Modules (see Paragraph D. in this guidebook). DTS-E Modules 1, 2, and 3 are provided in conjunction with DS1 Service (1.544 Mbps). The 24 channels may be used for the transport of services for termination on customer provided equipment.

(C)

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B. DEFINITIONS

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DS1 Service

DS1 Service denotes the channelized 1.544 Mbps DS1 facility between a customer premises and the serving central office for that location. This element is used in conjunction with Modules 1, 2, and 3, and is purchased from Part 15, Section 3 of this guidebook.

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1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)

B. DEFINITIONS (Cont'd)

(D)
(D)Term Payment Plan^{1,2/}

A period of time selected by the customer from among those currently offered by the Company, over which the customer agrees to pay a specified price for a product/service.

C. TERMS AND CONDITIONS

1. Digital Transport Service - Enhanced is offered from central offices where the Company has arranged for facilities for such service. At the request of the customer and at the discretion of the Company, DTS-E may be extended to central offices within the same Local Access Transport Area (LATA) through the application of DS1, DS3 Service, OC-n Point-to-Point Service, OC-n Dedicated Ring Service or other suitable Company services. This arrangement is not available in Independent Telephone Company serving areas.
2. The availability, functionality and capabilities of DTS-E features may vary based on the serving central office.

/1/ Effective August 31, 2011, 3-Year and 5-Year Term Payment Plans are no longer available for new installations or renewals of DTS-E Modules 1, 2 and 3. DTS-E Module 1, 2 or 3 customers currently on a Term Payment Plan may continue service at their existing TPP rate until the contract term expires. Upon completion of the current contract term, customers may continue receiving the service by entering into a new 1-Year TPP agreement at the then current applicable 1-Year TPP rates. If the customer does not enter into a new 1-Year TPP agreement, or request discontinuance of the service, the month-to-month guidebook rates in effect at such time will automatically apply.

/2/ Effective December 1, 2015, customers may not establish new Term Payment Plans (TPP) of any length for DTS-E Modules 1, 2 or 3, and existing TPPs may not be renewed. For new service, or for existing service after any TPP expires, service will be provided only on a month-to-month basis.

1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)

/1/

C. TERMS AND CONDITIONS (Cont'd)

3. The Company reserves the right to determine when trunk-side or line-side terminations are required and whether or not DTS-E may be provisioned with the customer's service and equipment. Internet providers subscribing to DTS-E will be provisioned via trunk-side terminations only.
4. Clear Channel capability is an optional DS1 feature that may be used in conjunction with DTS-E. Clear Channel allows the customer to transport 1.536 Mbps on a 1.544 Mbps line with no constraint on the quantity or bit sequence. Clear Channel nonrecurring charges, as noted elsewhere in this guidebook, are applicable only when Clear Channel is ordered subsequent to initial installation of this service.
5. When a DTS-E subscriber is also the customer of record for the Company's high speed transport services, the DTS-E customer may request provisioning of DTS-E over their high speed transport service's vacant bandwidth.
6. The same customer of record is required for both DTS-E and the associated Company DS1 facility. Sharing of common transport or DTS-E arrangements between multiple customers is not permitted.
7. Base Rate non-switched 56 Kbps service may be limited by certain combinations of switch type, signaling and frame format, to a maximum of twelve channels per DTS-E DS-1 facility.

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/1/ Material formerly appeared in Part 6 Section 7.

(N)

1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)**D. FEATURES**

DTS-E is available in four serving arrangements and is furnished where facilities permit. Availability and functionality of DTS-E and its features may vary by serving central office and switch type.

Module 1

Module 1 is an arrangement that supports Business Trunk Services (e.g., 1-Way In non-DID, 2-Way Combination, toll terminals, Custom Dedicated 800 Service, and Foreign Exchange Service). Toll billing exclusion service and 900-976 Call Blocking are also available with Module 1.

Module 2

Module 2 supports all services provided in Module 1 plus Direct Inward Dialing (DID) Service.

Module 3

In addition to services supported in Module 1 and Module 2, Module 3 supports the following: Business Basic Exchange Service; Base Rate non-switched 56 Kbps Service; Direct Inward Dialing with Call Transfer Service; and Off Premise Extension Service. Call Waiting, Call Forwarding Variable, and Three-Way Calling are available with Business Basic Exchange Service.

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1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)

/1/

E. Technical References

Customer Provided Equipment (CPE) compatibility requirements are listed in Company Technical References. All Customer Provided Equipment used to interface with Digital Transport Service - Enhanced is required to conform with the Technical Reference specifications as used by the Company.

<u>Subject</u>	<u>Technical Reference</u>
Network Channel Terminating Equipment	TR-NPL-000054
Digital Transport Service	AM-TR-TMO-000101

The Technical Reference can be obtained from:

APEX Support Team
(734) 523-7348

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1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)

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F. PRICES

The following prices are applicable to standard installations of Digital Transport Service - Enhanced and are in addition to all other charges for associated services and equipment necessary to provide telecommunications service.

Refer to *Other Applicable Charges and Payments* section of this guidebook for additional charges associated with the provision of Digital Transport Service - Enhanced.

The prices for Digital Transport Service - Enhanced in this guidebook will be utilized unless market demands require rates and charges to be negotiated with the customer on an individual case basis (ICB).

This guidebook is filed with Sec. 196.194, Wis. Stats. Therefore, any contract or amendment to such contract shall be compensatory as determined under Sec. 196.204 (5) and (6) Wis. Stats. Within 20 days after a contract or an amendment to such a contract has been executed, the Company shall submit to the Commission written notice of the general nature of the contract and the parties of the contract.

The receipt of notification of any contract or amendment to a contract established under this guidebook shall not constitute approval of all terms and provisions therein. The Commission retains jurisdiction to investigate on its own motion or upon complaint any contractual term or provision under which the guidebook service is offered, and to take any necessary action pursuant to such investigation including issuing orders.

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1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)

F. PRICES (Cont'd)

1. Service Elements

Description /Billing Code/	Install Charge	Month-to- Month	Monthly Payment Term Payment Plans ^{2,3/}		
			1-Year	3-Year	5-Year
DS1 Facility per module (see guidebook reference in F.2 following)					
Module 1 ¹ Per DS1 equipped /EMZ1X/	\$240.00	\$16,275.00(I)	\$565.00	\$530.00	\$470.00
Module 2 ¹ Per DS1 equipped /EMZ2X/	280.00	20,305.00(I)	720.00	655.00	595.00
Module 3 ¹ Per DS1 equipped /EMZ3X/	300.00	21,315.00(I)	780.00	720.00	655.00

/1/ Rates for Modules 1, 2 and 3 include services and features supported by Modules 1, 2 and 3 as described in Paragraph 1.D. However, other charges may be applicable as noted in Paragraph 1.F.

/2/ Effective August 31, 2011, 3-Year and 5-Year Term Payment Plans are no longer available for new installations or renewals of DTS-E Modules 1, 2 and 3. DTS-E Module 1, 2 or 3 customers currently on a Term Payment Plan may continue service at their existing TPP rate until the contract term expires. Upon completion of the current contract term, customers may continue receiving the service by entering into a new 1-Year TPP agreement at the then current applicable 1-Year TPP rates. If the customer does not enter into a new 1-Year TPP agreement, or request discontinuance of the service, the month-to-month guidebook rates in effect at such time will automatically apply.

/3/ Effective December 1, 2015, customers may not establish new Term Payment Plans (TPP) of any length for DTS-E Modules 1, 2 or 3, and existing TPPs may not be renewed. For new service, or for existing service after any TPP expires, service will be provided only on a month-to-month basis.

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1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)

F. PRICES (Cont'd)

Service Elements (Cont'd)

Description <u>/Billing Code/</u>	Install Charge	Month-to-Month	Monthly Payment <i>Term Payment Plans^{/1,2,/}</i>		
			1- Year	3- Year	5- Year
Additional Equipment Charge					
- Module 1, 2, 3 /FD5EX/	\$240.00	\$3,685.00(I)	\$110.00	\$110.00	\$110.00
Subsequent Addition/ Rearrangement Charge:					
- Modules, 1, 2, 3 Per Channel /NR9DT/	10.00	-	-	-	-

/1/ Effective August 31, 2011, 3-Year and 5-Year Term Payment Plans are no longer available for new installations or renewals of DTS-E Modules 1, 2 and 3. DTS-E Module 1, 2 or 3 customers currently on a Term Payment Plan may continue service at their existing TPP rate until the contract term expires. Upon completion of the current contract term, customers may continue receiving the service by entering into a new 1-Year TPP agreement at the then current applicable 1-Year TPP rates. If the customer does not enter into a new 1-Year TPP agreement, or request discontinuance of the service, the month-to-month guidebook rates in effect at such time will automatically apply.

/2/ Effective December 1, 2015, customers may not establish new Term Payment Plans (TPP) of any length for DTS-E Modules 1, 2 or 3, and existing TPPs may not be renewed. For new service, or for existing service after any TPP expires, service will be provided only on a month-to-month basis.

1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)

/3/

F. PRICES (Cont'd)**2. Other Applicable Charges and Payments**

1. In addition to the DTS-E rates and charges noted above, the following rates and charges as specified elsewhere in this guidebook may also apply:
 - Base Rate channel mileage, channel mileage termination charges, and local distribution channel charges for the terminating equipment
 - Custom 800 Service usage charges
 - DS1 recurring and nonrecurring charges
 - DS1 Clear Channel nonrecurring charge
 - Caller ID recurring Charge
 - DID Station Number recurring and nonrecurring charges
 - Foreign Exchange channel mileage charges
 - Off Premise Extension channel mileage charges
 - Centrex Service recurring and nonrecurring charges
 - Primary Interexchange Carrier Charge (PICC)¹
 - End-User Common Line charges²
2. Where both a trunk-side and line-side connection is requested, an *Additional Equipment Charge* as noted in *PRICES F.1* is applicable.
3. The *Per Channel Subsequent Addition/Rearrangement Charge* as noted in *PRICES F.1*, in addition to any applicable service connection charges normally associated with the installation or rearrangement of module services or features.
4. Local or Message Toll Service calls established through the use of DTS-E Service will be charged for at the rates specified elsewhere in this guidebook.
5. A Business Service Ordering Charge as specified in Part 3, Section 1 of this guidebook is applicable in addition to the Module Installation Charge.

/1/ See AT&T Tariff F.C.C. No. 2, Section 3.

/2/ See AT&T F.C.C. No. 2, Section 4.

/3/ Material formerly appeared in Part 6 Section 7.

/3/

(N)

1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)

F. PRICES (Cont'd)

2. Other Applicable Charges and Payments (Cont'd)

References:

The rates and charges in *PRICES F.1* are for Digital Transport Service - Enhanced. Additional applicable rates and charges for services specified in *PRICES F.2* can be found in the references listed below.

<u>Service</u>	<u>Reference</u>
Base Rate Service	Part 15, Section 3
Business Basic Exchange Usage Service	Part 4, Section 2
Caller ID	Part 7, Section 2
Custom 800 Service	Part 10, Section 2
Direct Inward Dialing (DID) Service	Part 6, Section 1
DS1 Service	Part 15, Section 3
End-User Common Line Charges	AT&T Operating Companies Tariff, F.C.C. No. 2, Section 4.1.7(c)
Foreign Exchange Service	Part 15, Section 2
Message Telecommunication Service	Part 9, Section 1
Off Premise Extension Service	Part 15, Section 2

1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)**F. PRICES (Cont'd)**

3. Payment Plans

• **Month to Month**

The minimum period is one month, unless specified otherwise.

• **Term Payment Plans^{/1,2/}**

The Term Payment Plan (TPP) is a plan which allows customers to pay a fixed price for equipment and service over optional periods. A different monthly price applies for the duration of each payment period. The monthly price varies inversely with the length of the payment period. The same payment plan must apply to all services and features.

DTS-E Module 1, 2, and 3 Term Payment Plans are available for 1, 3 or 5 years.

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During the effective term period, the monthly price is not subject to Company-initiated changes for payment periods longer than one month.

/1/ Effective August 31, 2011, 3-Year and 5-Year Term Payment Plans are no longer available for new installations or renewals of DTS-E Modules 1, 2 and 3. DTS-E Module 1, 2 or 3 customers currently on a Term Payment Plan may continue service at their existing TPP rate until the contract term expires. Upon completion of the current contract term, customers may continue receiving the service by entering into a new 1-Year TPP agreement at the then current applicable 1-Year TPP rates. If the customer does not enter into a new 1-Year TPP agreement, or request discontinuance of the service, the month-to-month guidebook rates in effect at such time will automatically apply.

/2/ Effective December 1, 2015, customers may not establish new Term Payment Plans (TPP) of any length for DTS-E Modules 1, 2 or 3, and existing TPPs may not be renewed. For new service, or for existing service after any TPP expires, service will be provided only on a month-to-month basis.

1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)

/3

F. PRICES (Cont'd)

4. Termination Charges/^{1,2/}

Customers subscribing to DTS-E under the Term Payment Plan (TPP) requesting termination of service prior to the expiration date of the TPP term will be liable for a termination charge, which shall, upon any such termination, immediately become due and payable in its entirety.

1. The termination charge for all TPP terms will be calculated as follows:

For service term agreements which become effective on or after May 3, 2004:

- in addition to any unpaid Special Construction or Nonrecurring Charges (excluding waived charges), customer termination liability for cancellation of DTS-E Service shall be equal to fifty percent (50%) of all recurring charges for the remaining months of the customer's TPP term

For service term agreements in effect prior to May 3, 2004:

- The dollar difference between the current monthly TPP price for the TPP term that could have been completed during the time the service was actually in service and the customer's current TPP price for each month the service was provided.

Example:

A customer subscribes to a 60-month TPP and discontinues service during the 37th month. This customer's termination charge would be:

(36 month TPP – 60 month TPP) x 37 months = Termination Charge

The 36-month TPP term could have been completed during the months the service was actually in service.

2. Termination charges are not applicable to changes in the physical location of the customer's DTS-E services as long as the service originates in the same serving central office.
3. All termination charges will be based on the TPP prices in effect at the time of termination. Termination charges are applicable for DS1 Service used in conjunction with DTS-E Service Modules 1, 2, and 3 as specified in Part 15, Section 3 of this guidebook.

/1/: Effective August 31, 2011, 3-Year and 5-Year Term Payment Plans are no longer available for new installations or renewals of DTS-E Modules 1, 2 and 3. DTS-E Module 1, 2 or 3 customers currently on a Term Payment Plan may continue service at their existing TPP rate until the contract term expires. Upon completion of the current contract term, customers may continue receiving the service by entering into a new 1-Year TPP agreement at the then current applicable 1-Year TPP rates. If the customer does not enter into a new 1-Year TPP agreement, or request discontinuance of the service, the month-to-month guidebook rates in effect at such time will automatically apply.

/2/ Effective December 1, 2015, customers may not establish new Term Payment Plans (TPP) of any length for DTS-E Modules 1, 2 or 3, and existing TPPs may not be renewed. For new service, or for existing service after any TPP expires, service will be provided only on a month-to-month basis.

/3/ Material formerly appeared in Part 6 Section 7.

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(N)

1. DIGITAL TRANSPORT SERVICE - ENHANCED (DTS-E) (Cont'd)**F. PRICES (Cont'd)****4. Termination Charges (Cont'd)**

4. Termination charges are not applicable if the customer converts their DTS-E Module 1, 2, or 3 service to another Company provided business exchange voice service that utilizes a Company provided DS1 or DS1 equivalent transport service as part of the service offering. The following terms and conditions apply to this termination charge waiver:

- the customer must agree to a TPP that equals or exceeds the number of months remaining on the existing DTS-E Module 1, 2, or 3 TPP
- the number of circuits on the new TPP must be equivalent to or exceed the number of circuits under the existing TPP
- the new TPP shall begin immediately upon conversion from the existing TPP
- the new service must be provided between the same customer locations and with the same customer of record as the disconnected service
- non-recurring charges for the new service will apply.

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3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

/2/

Effective November 30, 2018, Customized Switched Metro Ethernet (CSME) Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

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A. Description

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Customized Switched Metro Ethernet (CSME) Service is a switched Layer 2 Ethernet network allowing for basic metropolitan Ethernet connectivity. CSME Service allows businesses to interconnect multiple customer locations within a LATA as if they were segments on the same LAN using packet-based switching technologies. Connections at the customer premises are made using Native Ethernet interfaces and traverse the MAN over fiber facilities. CSME Service provides bandwidth of either 10 Mbps, 100 Mbps or 1 Gbps^{/1}.

Customers connect to CSME Service via one of the following standard connections, as requested by the customer:

- 10/100 Base T (10 Mbps or 100 Mbps)
- Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)

Customers may connect multiple locations together, as long as they are in the same LATA or MAN and the service is available. This service acts as an Ethernet bridge supporting LAN-to-LAN connections.

CSME Service includes the connection from the customer's premise to the Ethernet network, a port on the Ethernet network and the bandwidth that will be used across the network. An optional feature is the ability to segregate customer traffic, as deemed necessary by the customer. This traffic segregation is accomplished using Ethernet Virtual Connections (EVCs), at an additional charge.

/1/ Bandwidth is inclusive of allowances for overhead within the Ethernet network. If a customer orders 1 Gbps of bandwidth on a single port, the Company reserves the right to use up to 10% of the bandwidth for traffic management.

/2/ Material formerly appeared in Part 6, Section 9, Sheet 33.

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (Cont'd)

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B. Terms and Conditions

In addition to regulations set forth elsewhere in this guidebook, the following regulations apply to CSME Service:

1. CSME Service is provided at the option of the Company where equipment and facilities permit. If appropriate facilities are not available, Special Construction charges may apply.
2. The customer provided equipment (CPE) must deliver the data signal for the CSME transport within the industry specification for the subscribed data service. See *Technical References* following.
3. CSME Service supports full duplex communication.
4. If a customer connects to the CSME network using a bridge or switch for Layer 2 connectivity, only 150 MAC addresses can be used per Layer 2 device, per port. Any additional addresses over the first 150 will be assessed an additional charge, with a limit of 200 MAC addresses total per port. An additional charge will be assessed per block of 151-200 addresses. See *PRICES* following.
5. CSME Service is distance limited, based on circuit configuration as determined by the Company. A repeater may be used to extend the transmission of CSME Service. See *Repeater* under *Features (Optional)* following for further definition. See *Prices* following.
6. Should the customer wish to segregate traffic, a total of 8 Ethernet Virtual Connections (EVCs) may be configured per 10/100 Base T connection. A total of 64 EVCs may be configured per 1 Gbps connection. Should the customer request more than 64 EVCs on a 1 Gbps connection, a technical review will need to be conducted to determine whether the network will support more than 64 EVCs.
7. If a customer desires that service be provided on a due date less than the standard interval, the customer may request that service be provided on an expedited basis. If the Company determines that service can be provided on the requested expedited date and spare facilities are available, the Expedite Order Charge (per port, per location) will apply. See *Prices* following.

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/1/ Material formerly appeared in Part 6, Section 9, Sheet 34.

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (Cont'd)

/1/

B. Terms and Conditions (Cont'd)

8. If the customer cancels service prior to installation being completed, a Service Order Cancellation charge (per port, per location) will apply. See *Prices* following. The customer's intent to cancel service must be made in writing.
9. CSME Service may be available in a meet-point billing arrangement involving another Incumbent Local Exchange Carrier (ILEC) (sometimes also referred to as an Independent Company or ICO), where suitable facilities exist and where appropriate procedures for such arrangements have been put in place between the Company and the other ILEC. When the Company and another ILEC jointly provision CSME Service with the other ILEC's service, the ILEC involved shall bill the customer at that ILEC's applicable rates for their portion of the service located in their operating territory. Ordering and provisioning procedures may vary, and therefore Meet-Point rate elements and charges may not be applicable, when the other ILEC involved in the Meet-Point arrangement is an AT&T ILEC.
10. Service Level Agreements are not offered with this service. However, Credit Allowances are applicable. See *Prices* following.
11. Reserved for future use.
12. If the 10 Mbps or 100 Mbps connection is ordered, it will only be provisioned using the 10/100 Base T connection.
13. The responsibility of the Company shall be limited to furnishing the CSME network. Subject to this responsibility, the Company shall not be responsible for the through transmission of signals generated by CPE or for the quality of, or defects in, such transmission or the rejection of signal by CPE. The Company shall not be responsible for installation, operation, maintenance or adapting CSME to the technological requirements of specific CPE. In addition, the Company shall not be responsible to the customer if changes in any of the equipment, operations or procedures of the Company used in the provisioning of CSME render any facilities provided by the customer obsolete; or require modification or alteration of such equipment or system; or otherwise affect its use or performance, provided the Company has met all applicable information disclosure requirements otherwise required by law.
14. Customers will be permitted to move from a 10 Mbps or 100 Mbps Connection to a 1 Gbps Connection, however the Nonrecurring Charge associated with the new 1 Gbps Connection will apply. See *Prices* following.
15. The Company will use controls to limit the amount of multicast and broadcast traffic to protect the CSME network against traffic storms. The maximum throughput of multicast traffic will be set at 1 Mbps per customer port, while the maximum throughput of broadcast traffic will be set at 200 packets per second per port. The Company recommends that customers enable controls for multicast, broadcast and unknown unicast traffic within the customer network(s).

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/1/ Material formerly appeared in Part 6, Section 9, Sheet 35.

/2/ Material formerly appeared in Part 6, Section 9, Sheet 36.

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (Cont'd)

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C. Features

1. Standard Features

Usage, Port, Transport and Interface

Provides for the physical connection between the customer's premise and the serving wire center, as well as the bandwidth that will be used by the customer at each location. Several interface protocols are available: 10/100 Base T and Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX).

2. Optional Features

Additional MAC Addresses

Media Access Control (MAC) Addresses denote a data link layer protocol used for Layer 2 connectivity. If a customer connects to the CSME network using a bridge or switch for Layer 2 connectivity, only 150 MAC addresses can be used per Layer 2 device, per port. Any additional addresses over the first 150 will be assessed an additional charge, with a limit of 200 MAC addresses total per port. An additional charge will be assessed per block of 151-200 addresses.

Ethernet Virtual Connections (EVC)

An Ethernet Virtual Connection is a logical point-to-point connection between two customer locations, and goes from the customer demarcation point at one location through the network to terminate at the demarcation point at the second customer location. Customers use EVCs if they desire traffic segregation, but EVCs will not provide for traffic prioritization. EVCs may be ordered to establish additional virtual connections over the same physical connection. When EVCs are ordered, the customer must designate the amount of bandwidth to be assigned to each EVC. EVCs can be set in 1 Mbps increments from 5 Mbps to 1 Gbps.

Repeater

For those customers who are located outside normal transmission parameters, service can be provided using a repeater to be placed in Company wire centers. An engineering study will be completed to ensure transmission parameters can be met using a repeater, and the Company will determine when Repeaters are necessary. Additional charges will apply. Provisioning of CSME Service is subject to the availability and operational limitations of the equipment and associated facilities.

/1/

Meet-Point Billing Options

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Meet-Point is available in two configurations:

Direct LEC Connection is provisioned using a standard CSME Connection, plus Mileage. The mileage is measured in airline miles from the CSME switch location to the ILEC (ICO) meet-point location.

GigE ICO Trunking Arrangement applies an ICO Trunk Connection Charge between the OPT-E-MAN switch location and the ICO meet-point location that is shared with the ILEC (ICO) Ethernet switch. The ICO Trunk Connection Charge is applied to each customer Ethernet Virtual Connection (EVC) that is transported on the GigE trunk backbone to the ICO meet-point. The ICO Trunk Mileage charge is applicable to each customer Ethernet Virtual Connection (EVC) transported across the GigE trunk when mileage exceeds 10 miles. Mileage is calculated from the OPT-E-MAN switch location to the ICO meet-point location.

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/1/ Material formerly appeared in Part 6, Section 9, Sheet 37.

/2/ Material formerly appeared in Part 6, Section 9, Sheet 38.

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (Cont'd)

/1/

D. Technical References

The customer interface to CSME Service is as specified in:

<u>Subject</u>	<u>Technical Reference</u>
Ethernet Standards	SBC TP-76412
Network Equipment Design Requirements	SBC TP-76200MP

These publications may be obtained from:

APEX Support Team
(734) 523-7348

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/1/ Material formerly appeared in Part 6, Section 9, Sheet 39.

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (Cont'd)

/3/

E. Prices

1. Service Elements

<u>Description</u>	<u>Nonrecurring Charge</u>	<i>Term Payment Plans</i>		<u>Monthly Extension</u>
		<u>36 Months</u>	<u>60^{2/} Months</u>	
Usage, Port, Transport, Interface, each customer location				
10 Mbps Connection /P9FYX/	\$1,600.00	\$1,170.00	\$1,100.00	\$1,550.00
- Subsequent 10 Mbps Connection ^{1/} /P9FZX/	1,150.00	950.00	800.00	1,200.00
100 Mbps Connection /P9FKX/	1,925.00	1,665.00	1,600.00	2,500.00
- Subsequent 100 Mbps Connection ^{1/} /P9FPX/	1,200.00	1,200.00	1,025.00	1,560.00
1 Gbps /P9FLX/	2,500.00	3,220.00	3,080.00	3,900.00

/1/ Any Subsequent 10 Mbps or 100 Mbps Connections must terminate at the same locations as the original 10 Mbps or 100 Mbps Connections.

/2/ Effective November 15, 2013, customers may not establish new term plans greater than 36 months for CSME Service, and existing term plans greater than 36 months may not be renewed or extended a term greater than 36 months.

/3/ Material formerly appeared in Part 6, Section 9, Sheet 40.

/3/

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (cont'd)

/2/

E. Prices (cont'd)

1. Service Elements (cont'd)

<u>Description</u>	<u>Nonrecurring Charge</u>	<i>Term Payment Plans</i>		<u>Monthly Extension</u>
		<u>36 Months</u>	<u>60^{1/} Months</u>	
<i>Optional Charges</i>				
Repeater				
- each /VU4/	\$250.00	\$400.00	\$375.00	\$475.00
<u>Description</u>				
		<u>Nonrecurring Charge</u>		<u>Monthly Price</u>
Ethernet Virtual Connection (EVC)				
- per connection /EVNDE/		\$70.00		\$25.00
Additional MAC Addresses				
- 151-200 MAC addresses /M2CAX/		70.00		5.00

/1/ Effective November 15, 2013, customers may not establish new term plans greater than 36 months for CSME Service, and existing term plans greater than 36 months may not be renewed or extended for a term greater than 36 months.

/2/

/2/ Material formerly appeared in Part 6, Section 9, Sheet 41.

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (Cont'd)

/1/

E. Prices (Cont'd)

1. Service Elements (Cont'd)

<u>Description</u>	<u>Nonrecurring Charge</u>
<i>Optional Charges (Cont'd)</i>	
Service Order Cancellation - per location /OCGEO/	\$ 200.00
Expedite Order Charge - per location /EODEO/	300.00
Service Order Change Charge - applies to Bandwidth Usage Changes, EVC Changes and Configuration Changes for pending, initial service orders, per location /NHCEO/	75.00
Miscellaneous Change Charge - applies to Bandwidth Usage Changes, EVC Changes and Configuration Changes for subsequent changes to existing service, per location /NHCEN/	100.00

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/1/ Material formerly appeared on Part 6, Section 9, Sheet 42.

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (cont'd)

/3/

E. Prices (cont'd)

1. Service Elements (cont'd)

<u>Description</u>	<u>Nonrecurring Charge</u>	<u>Monthly Price</u>
<i>Optional Charges (cont'd)</i>		
Meet-Point Billing Options		
- Direct LEC Connection, Mileage		
Above 0 and inclusive of 10 miles	\$1,200.00	\$500.00
Above 10 and inclusive of 25 miles	1,200.00	1,000.00
Above 25 and inclusive of 35 miles	1,200.00	1,500.00
Above 35 and inclusive of 50 miles	1,200.00	2,500.00
<u>Description</u>	<u>Nonrecurring Charge^{1/}</u>	<u>Monthly Payment Term Payment Plans</u>
		36 60 ^{2/}
		<u>Months</u> <u>Months</u>
- GigE ICO Trunking Arrangement		
ICO Trunk Connection Charge, per EVC		
10 Mbps	\$525.00	\$420.00
100 Mbps	800.00	840.00
1 Gbps	1,100.00	4,830.00
		\$360.00
		720.00
		4,100.00
		\$660.00
		1,290.00
		7,360.00

/1/ Nonrecurring charges will be waived for those customers selecting the 36 or 60^{2/} month Term Payment Plan (TPP) period for new service.

/2/ Effective November 15, 2013, customers may not establish new term plans greater than 36 months for CSME Service, and existing term plans greater than 36 months may not be renewed or extended for a term greater than 36 months.

/3/ Material formerly appeared on Part 6, Section 9, Sheet 43.

/3/

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (Cont'd)

/1/

E. Prices (Cont'd)

1. Service Elements (Cont'd)

<u>Description</u>	<u>Monthly Price</u>
<i>Optional Charges (Cont'd)</i>	
Meet-Point Billing Options (Cont'd)	
- GigE ICO Trunking Arrangement (Cont'd)	
ICO Trunk Mileage, per EVC	
Above 0 and inclusive of 10 miles	N/A
Above 10 and inclusive of 25 miles	
10 Mbps	\$170.00
100 Mbps	375.00
1 Gbps	1,500.00
Above 25 and inclusive of 35 miles	
10 Mbps	270.00
100 Mbps	675.00
1 Gbps	1,750.00
Above 35 and inclusive of 50 miles	
10 Mbps	410.00
100 Mbps	1,100.00
1 Gbps	2,000.00

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/1/ Material formerly appeared in Part 6, Section 9, Sheet 44.

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (cont'd)

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E. Prices (cont'd)**2. Payment Plans**

- Term Payment Plans

CSME Service is only available under the Term Payment Plan (TPP) whereby customers must select either a 36 or 60^{/1}/ month period. Decreases in CSME monthly recurring charges will be passed onto customers who participate in a TPP. After the selected Term Payment Plan period is satisfied, the Monthly Extension Price in effect at the time of contract expiration will apply unless a new TPP is selected. Refer to *Term Payment Plans* in Part 2, Section 3.

- Single Payment Option (SPO)

A single payment option is available for this service. Refer to *Term Payment Plans* in Part 2, Section 3 for calculating Single Payment Options.

3. Termination Charges

Termination Charges will apply to service terminated prior to the contracted period. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to:

- 50 percent (50%) of all recurring charges for the remaining months of the customer's term

/1/ Effective November 15, 2013, customers may not establish new term plans greater than 36 months for CSME Service, and existing term plans greater than 36 months may not be renewed or extended for a term greater than 36 months.

/2/

/2/ Material formerly appeared on Part 6, Section 9, Sheet 45.

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (Cont'd)

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E. Prices (Cont'd)**3. Termination Charges (Cont'd)**

Customers may move their existing service to a new location without incurring Termination Charges provided all of the following conditions are met:

- The customer maintains the existing TPP at the new location or establishes a new TPP equal to or greater than the old location;
- During the TPP, a customer may move a CSME Service location to another premises in the same LATA and keep the TPP in force without assessment of Termination Charges, provided no lapse in billing occurs;
- The customer's request for disconnect at the existing location and the request for service at the new location are received at the same time, and the customer's disconnect order for the existing service references the new connect order for the new service;
- Moves of one location to a premise in a different serving office may result in a change in the monthly charges. Nonrecurring charges as appropriate are applicable;
- If the customer moves more than one location of the service concurrently, the customer will be liable for Termination Charges, as this is considered a complete disconnect of the service.

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/1/ Material formerly appeared on Part 6, Section 9, Sheet 46.

3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (Cont'd)

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E. Prices (Cont'd)**3. Termination Charges (Cont'd)**

Customers will be permitted to upgrade from CSME Service to a higher-speed service provided by the Company, without incurring Termination Charges, given all of the following conditions are met:

- An upgrade is considered an increase in speed or capacity when comparing CSME Service to the new service.
- The customer must issue a disconnect order for the existing CSME locations and place a service order for the new higher-speed service at the same locations such that there is no more than 90 days overlap in service. Termination Charges for CSME Service at the current locations will be waived.
- The term of the new higher-speed service contract must be equal to or greater than the remaining time left on the existing CSME contract.
- The existing CSME Service must have been in service for a minimum period of 15 months for a 3-year contract or 18 months for a 5-year contract.
- For customers upgrading from CSME to OPT-E-MAN Service, the customer's network configuration must remain the same (i.e. multipoint CSME to multipoint OPT-E-MAN). The number of OPT-E-MAN locations must be greater than or equal to the current number of CSME locations.
- For customers upgrading from CSME to OPT-E-MAN Service, a minimum of 50% of the connection speed for each individual connection must be maintained:
 - If customer has a 1 Gbps CSME connection, then customer must purchase a minimum 500 Mbps OPT-E-MAN connection.
 - If customer has a 100 Mbps CSME connection, then customer must purchase a minimum 50 Mbps OPT-E-MAN connection.
 - If customer has a 10 Mbps CSME connection, then customer must purchase a minimum 5 Mbps OPT-E-MAN connection.

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3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (cont'd)

/1/

E. Prices (cont'd)

3. Termination Charges (cont'd)

Migration to AT&T Switched Ethernet ServiceSM

Customers subscribing to CSME Service may migrate to AT&T Switched Ethernet Service provided by the Company without incurring termination liability, subject to the following conditions:

- The new AT&T Switched Ethernet Service and the existing CSME Service must be billed to the same customer of record at the same customer locations.
- The customer's existing service must have been in place for at least 12 months.
- The minimum term for the new service must be at least 12 months and must be equal to or greater than the number of months remaining in the customer's existing Term Payment Plan (TPP) term.
- The speed (capacity/bandwidth) of the new service must be equal to or greater than that of the existing service.
- The customer must issue a disconnect order for the replaced CSME Service to be effective within 90 days after the AT&T Switched Ethernet Service installation date. The disconnect and new orders must be coordinated through the Company.
- If overlapping service is required, the period will be limited to not more than 90 days and billing will apply to both services during the time both services are available.

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/1/ Material formerly appeared on Part 6, Section 9, Sheet 47.1.

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3. CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE (Cont'd)

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E. Prices (Cont'd)**4. Credit Allowance**

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company will be excluded from providing a Credit Allowance should any of the following conditions occur:

- Force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.
- The failures of any components beyond the local facility including the Network Interface (NI), the CSU/DSU/Channel band/Extended Demarcation are excluded from the service outage calculation.
- Data loss during the Company's scheduled maintenance window.
- Failures attributed to facilities or equipment provided by customer or its contractors, equipment vendors, another local exchange carrier or inter-exchange carrier.

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