

Voice | Data | Internet | Wireless | Entertainment



Embarq Corporation
Mailstop: KSOPKJ0502-5022
5454 West 110th Street
Overland Park, KS 66211
Glenda.Munson@EMBARQ.com

VIA E-FILE

April 2, 2008

Ms. Renee' Jenkins, Director of Administration
Public Utilities Commission of Ohio
180 East Broad Street, 13th Floor
Columbus, OH 43215-0573

Re: United Telephone Company of Ohio d/b/a Embarq
Case No. 08-385-TP-ATA

Dear Ms. Jenkins:

Enclosed for filing are revisions to United Telephone Company of Ohio d/b/a Embarq P.U.C.O. No. 1, P.U.C.O. No. 5, and P.U.C.O. No. 6 tariffs. This filing should be processed as a zero day filing, to become effective April 2, 2008.

In compliance with Case No. 06-1345-TP-ORD, this filing removes all regulated nonresidential Tier 2 services and all regulated toll services from the Private Line Service Tariff, Message Toll Telephone Services Tariff, General Exchange Tariff, and Local Exchange Tariff. Revised tariff sheets associated with this filing can be reviewed in Attachment B of this filing. A summary matrix of these changes is shown in Attachment C of this filing.

If you have any questions regarding this filing, please call Gary Baki at 614-220-8629.

Sincerely,

/s/ Glenda L. Munson

Enclosures

cc: Gary Baki
OH 08-05

Glenda L. Munson
TARIFF ANALYST I
Voice: (913) 315-9346
Fax: (913) 315-0763

The Public Utilities Commission of Ohio
TELECOMMUNICATIONS APPLICATION FORM for
DETARIFFING AND RELATED ACTIONS

Per the Commission's 09/19/07 "Implementation Order" in Case No. 06-1345-TP-ORD
(Effective: 10/01/2007 through 04/01/2008)

In the Matter of the Application of United Telephone) TRF Docket No. 90-5041-TP-TRF
Company of Ohio d/b/a Embarq to detariff Certain Tier 2) Case No. 08 - 385 - **TP** - **ATA**
Services and make other changes related to the) **NOTE: Unless you have reserved a Case No. leave the "Case No."**
Implementation of Case No. 06-1345-TP-ORD) **fields BLANK.**

Name of Registrant(s) United Telephone Company of Ohio
DBA(s) of Registrant(s) Embarq
Address of Registrant(s) 5454 West 110th Street, Overland Park, KS 66211
Company Web Address http://www2.embarq.com/tariffs
Regulatory Contact Person(s) Gary Baki Phone 614-220-8629 Fax 614-224-3902
Regulatory Contact Person's Email Address gary.s.baki@embarq.com
Contact Person for Annual Report Mike Whitney Phone 913-323-4718
Address (if different from above) _____
Consumer Contact Information Kim Harrison Phone 800-238-3095
Address (if different from above) _____

Part I – Tariffs

Please indicate the Carrier Type and the reason for submitting this form by checking the boxes below.

NOTE: All cases are ATA process cases, tariffs are effective the day they are filed, and remain in effect unless the Commission acts to suspend.

Carrier Type	<input checked="" type="checkbox"/> ILEC	<input type="checkbox"/> CLEC	<input type="checkbox"/> CTS
Business Tier 2 Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Residential & Business Toll Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Changes required by Rule (Describe in detail in Exhibit C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Part II – Exhibits

Note that the following exhibits are required for all filings using this form.

Included	Identified As:	Description of Required Exhibit:
<input checked="" type="checkbox"/>	Exhibit A	The existing affected tariff pages.
<input checked="" type="checkbox"/>	Exhibit B	The proposed revised tariff pages.
<input checked="" type="checkbox"/>	Exhibit C	Matrix or narrative summarizing all changes proposed in the application, and/or other information intended to assist Staff in the review of the Application.
<input checked="" type="checkbox"/>	Exhibit D	Explanation of how the Applicant intends to comply with Rule 4901:1-6-05(G)(3) regarding disclosure of rates, terms, and conditions for detariffed services, including: <ul style="list-style-type: none"> citation to the appropriate Web Page if any, in accordance with rule 4901:1-6-05(G)(4), and/or copy of other materials and publications to be used to comply with 4901:1-6-05(G)(3).
<input checked="" type="checkbox"/>	Exhibit E	One-time customer notice of detariffing and related changes consistent with rule 4901:1-06-16(B) , including where customers may find the information regarding such services as required by rule 4901:1-6-05(G)(3).
<input checked="" type="checkbox"/>	Exhibit F	Affidavit that the Customer Notice described in Exhibit C has been sent to Customers.

Part III. – Attestation

Registrant hereby attests to its compliance with pertinent entries and orders issued by the Commission.

AFFIDAVIT

Compliance with Commission Rules and Service Standards

I am an officer/agent of the applicant corporation, Embarq Communications, Inc., and am authorized to make this statement on its behalf.
(Name)

I attest that these tariffs comply with all applicable rules, including the Minimum Telephone Service Standards (MTSS) Pursuant to Chapter 4901:1-5 OAC for the state of Ohio. I understand that tariff notification filings do not imply Commission approval and that the Commission's rules, including the Minimum Telephone Service Standards, as modified and clarified from time to time, supersede any contradictory provisions in our tariff. We will fully comply with the rules of the state of Ohio and understand that noncompliance can result in various penalties, including the suspension of our certificate to operate within the state of Ohio.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on (Date) April 2, 2008 at (Location) Overland Park, KS 66211

*(Signature and Title) /s/ Glenda L. Munson, Tariff Analyst (Date) April 2, 2008

- *This affidavit is required for every tariff-affecting filing. It may be signed by counsel or an officer of the applicant, or an authorized agent of the applicant.*

VERIFICATION

I, Glenda L. Munson verify that I have utilized the Telecommunications Application Form for Detariffing and Related Actions provided by the Commission and that all of the information submitted here, and all additional information submitted in connection with this case, is true and correct to the best of my knowledge.

*(Signature and Title) /s/ Glenda L. Munson, Tariff Analyst (Date) April 2, 2008

**Verification is required for every filing. It may be signed by counsel or an officer of the applicant, or an authorized agent of the applicant.*

Send your completed Application Form, including all required attachments as well as the required number of copies, to:

**Public Utilities Commission of Ohio
Attention: Docketing Division
180 East Broad Street, Columbus, OH 43215-3793**

Or

Make such filing electronically as directed in Case No 06-900-AU-WVR

EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Fifth Revised Title Sheet
Cancels
Fourth Revised Title Sheet

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

REGULATIONS, RATES AND CHARGES

Applying to the provision of private line and private line type services within an exchange or within a local access and transport area (LATA) or equivalent market area for connection to intrastate communications facilities for customers within the operating territory of

United Telephone Company of Ohio **d/b/a Embarq**

(T)

or

The provision of interLATA interexchange private line services within the

State of Ohio*

United Telephone Company of Ohio is a wholly owned subsidiary of Embarq. Services offered pursuant to this tariff may be offered under the brand name Embarq. All regulated and tariffed services offered by United Telephone Company of Ohio, under its brand name Embarq are subject to the terms and conditions of this tariff.

*Indiana rates are applicable to Private Line Service customers located in Union City, Ohio.

Issued: September 11, 2006

Effective: September 11, 2006

United Telephone Company of Ohio
By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

In accordance with Order No. 06-1115-TP-ZTA
Issued by Public Utilities Commission of Ohio

EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Fifth Revised Sheet 1
Cancels
Fourth Revised Sheet 1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

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United Telephone Company of Ohio
By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

In accordance with Order No. 06-1115-TP-ZTA
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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Seventh Revised Sheet 1
Cancels
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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

SUBJECT INDEX

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United Telephone Company of Ohio
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Overland Park, Kansas

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Third Revised Sheet 2
Cancels
Second Revised Sheet 2

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

SUBJECT INDEX

Section Title

Section

Sheet

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(T)

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Overland Park, Kansas

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section A
Fourth Revised Sheet 1
Cancels
Third Revised Sheet 1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LOCAL PRIVATE LINE SERVICES

- I. Telecommunications Service Priority (TSP) System
 - A. The TSP System is a service, developed to meet the requirements of the Federal Government, which provides the regulatory, administrative and operations framework for the priority installation and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services. Priority installation and/or restoration of NSEP telecommunications services shall be provided in accordance with Part 64.401, Appendix A, of the Federal Communications Commission's (FCC's) Rules and Regulations.
 - B. Regulations, rates and charges are specified in **Embarq** Local Telephone Companies' F.C.C. No. 3, Access Service Tariff, Section 13. (T)

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United Telephone Company of Ohio
By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

In accordance with Order No. 06-1115-TP-ZTA
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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section B
First Revised Sheet 1
Cancels
Cancels Original Sheet 1

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

Trademarks and Service Marks Used in this Tariff

Below is a list of trademarks and/or service marks for services which are offered in this Tariff. These trademarks and/or service marks are owned by Embarq Corporation and are used by Embarq Communications, Inc. with express permission. These designations will not be listed hereafter in the Tariff. However, the laws regarding trademarks and service marks will still apply. Trademarks and service marks that are owned by Embarq Corporation cannot be used by another party without authorization.

EMBARQTM
EMBARQSM

(T)
—
(T)
(D)
—
(D)

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United Telephone Company of Ohio
By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

In accordance with Order No. 06-1115-TP-ZTA
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EXHIBIT A

United Telephone
Company Of Ohio
d/b/a Embargo

Section 1
Third Revised Sheet 1
Cancels
First Revised Sheet 1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTRALATA INTRAEXCHANGE/INTEREXCHANGE PRIVATE LINE SERVICES

- I. DESCRIPTION (T)**
- IntraLATA Intraexchange/Interexchange Private Line Services are the furnishing of Telephone Company facilities for communications by customers, authorized users or joint users between specified locations, 24 hours daily, seven days per week, except as otherwise specifically stated.
- II. GENERAL REGULATIONS (T)**
- A.** In case a shortage of facilities exists, the establishment of local and message toll telephone services shall take precedence over all others. (T)
- B.** Private Line Services are furnished only for communications in which the customer or authorized user has a direct interest and shall not be used for any purpose for which a payment shall be received by the customer or authorized user. (T)
- C.** Where construction is required in connection with private line services furnished by the Telephone Company, the rules and regulations for construction charges in Section 5 of the General Exchange Tariff will apply. (T)
- D.** Terminating equipment may or may not be furnished by the subscriber, but it must in each case be approved by the Telephone Company. (T)
- E.** The liability of the Telephone Company for damages arising out of mistakes, omissions, interruptions, delays, errors or defects in transmission occurring in the course of furnishing service and not caused by failure of facilities provided by the customer, negligence of the subscriber or negligence of the Telephone Company shall not exceed an amount equivalent to the proportionate charge to the customer for the period of service during which mistake, omission, interruption, delay, error or defect in transmission occurs. (T)
- F.** The Telephone Company shall be indemnified and saved harmless by the customer against all claims for libel, slander, infringement of copyright or patents, and all other claims arising from material transmitted over Telephone Company facilities or any act or omission of the customer. (T)
- G.** Regulations and rates contained herein apply:
- 1.** To private line service between two or more points between Telephone Company exchange areas; (T)
- 2.** To that portion of a joint private line service furnished by the Telephone Company in the case of such service involving Telephone Company exchange areas, and exchange areas of connecting companies within the State of Ohio. (T)

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United Telephone Company of Ohio
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Overland Park, Kansas

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embargo

Section 1
Fifth Revised Sheet 2
Cancels
Fourth Revised Sheet 2

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTRALATA INTRAEXCHANGE/INTEREXCHANGE PRIVATE LINE SERVICES

- II. GENERAL REGULATIONS (**Continued**) (T)
 - H. Whenever facilities are provided jointly by the Telephone Company and one or more other telephone companies, the regulations, rates and charges of such other telephone companies apply for the equipment and facilities furnished by them for use in connection with the interexchange service provided by the Telephone Company. (T)
 - I. Where it is necessary to use intraexchange or interexchange channel facilities of another telephone company in order to furnish a private line service, such service will be furnished only if satisfactory arrangements can be made with the other company. (T)
 - J. The Telephone Company is not liable for any act or omission of any other telephone company furnishing a portion of the service. (T)
- III. VOICE GRADE SERVICES (T)
 - A. Description (T)
 - 1. A Voice Grade (VG) channel is a channel, which provides voice frequency transmission capability in the normal frequency range of 300 to 3000 HZ and may be terminated two-wire or four-wire. (T)
 - 2. Channel Interfaces (T)

The following channel interfaces for Voice Grade service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade service do not require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV, and SF.
 - 3. Optional Features and Functions (T)
 - a. Central Office Bridging Capability (T)

Voice Bridging (two-wire or four-wire): provides for the parallel connection of one voice circuit to another without interrupting the integrity or continuity of the first.

Data Bridging (two-wire or four-wire): provides for the parallel connection of one data circuit to another without interrupting the integrity or continuity of the first

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embargo

Section 1
Third Revised Sheet 3
Cancels
Second Revised Sheet 3

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTRALATA INTRAEXCHANGE/INTEREXCHANGE PRIVATE LINE SERVICES

- III. VOICE GRADE SERVICES (Continued)** (T)
- A. Description (Continued)** (T)
- 3. Optional Features and Functions (Continued)** (T)
- b. Conditioning** (T)
- Conditioning provides more specific transmission characteristics for Voice Grade services.
- For two-point services, the parameters apply to each point of termination. For multipoint services, the parameters apply to each mid link or end link. C-Type conditioning and Data Capability may be combined on the same service.
- 1) C-Type Conditioning** (T)
- C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion of data services.
- 2) Customer Specified Premises Receive Level** (T)
- This option allows the customer to specify the receive level at the Point of Termination. This level must be within a specific range on effective four-wire transmission.
- 4. Four-Wire/Two-Wire Conversions** (T)
- When a customer request that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Channel Termination rate.

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United Telephone Company of Ohio
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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 1
Seventh Revised Sheet 4
Cancels
Sixth Revised Sheet 4

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTRALATA INTRAEXCHANGE/INTEREXCHANGE PRIVATE LINE SERVICES

III. VOICE GRADE SERVICES **(Continued)**

(T)

B. Rates and Charges

(T)

	<u>Monthly Rate</u>	<u>First NRC</u>	<u>Add'l NRC</u>	
1. Channel Termination* - Per Point of Termination				(T)
2-Wire	\$ 56.00	\$ 200.00	\$100.00	
4-Wire	78.00	200.00	100.00	
2. Channel Mileage*				(T)
Fixed	48.00	0.00		
Per Mile	2.00	0.00		
3. Optional Features and Functions				(T)
a. Bridging – Per Port				(T)
Voice Bridging	5.10	69.05		
Data Bridging	4.05	69.05		
b. Conditioning – Per Point of Termination				(T)
C-Type	5.50	39.55		
Improved Attenuation Distortion	9.50	39.55		
Improved Envelope Delay Distortion	56.00	39.55		
Improved Return Loss 2-Wire	3.00	39.55		
Improved Return Loss 4-Wire	4.00	39.55		
Improved Termination 2-Wire	3.00	39.55		
Improved Termination 4-Wire	4.00	39.55		

*These rates are applicable to WATS services provided over voice grade facilities.

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United Telephone Company of Ohio
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Overland Park, Kansas

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Issued by Public Utilities Commission of Ohio

EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 1
Second Revised Sheet 5
Cancels
First Revised Sheet 5

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTRALATA INTRAEXCHANGE/INTEREXCHANGE PRIVATE LINE SERVICES

IV. UNITED METALLIC (Note 1)

(M) (T)

A. Description

(T)

United Metallic service provides a two-wire metallic circuit to be used only for alarm circuits. This type of circuit is also known as a dry pair or a DC (direct current) loop. The design and physical makeup of this two-wire metallic service are not available or applicable for analog or data services.

B. Rates

(T)

1. United Metallic facilities between two points within one Telephone Company exchange area (containing one central office) will incur the following rates and charges for each channel.*

(T)

	<u>Monthly Rate</u>
a. First mile or fraction thereof	\$13.00

(T)

b. Each additional 1/4 mile or fraction thereof	3.25
---	------

(T)

2. United Metallic facilities between two points within one Telephone Company exchange area (containing two or more central offices) will incur the following rates and charges for each channel.**

(T)

	<u>Monthly Rate</u>
a. Between contiguous central offices in the same exchange area	\$26.00

(T)

b. Between noncontiguous central offices in the same exchange area	42.00
---	-------

(T)

Note 1: Service Grandfathered for customers using two-wire analog for analog or data services.

* Local channel mileage is based upon airline mileage measurement between the location of channel terminals within the serving central office area.

** Local channel mileage beyond the central office is based on airline mileage distance from the central office to the location of channel termination at rates indicated in paragraph 1. Local channel facilities provided beyond both central offices will be based on the sum of local channel mileage at rates indicated in paragraph 1.

United Metallic service among three or more points within one Telephone Company exchange is rated on a per location basis. A charge applies from the central office to each individual location. Each location is rated according to the applicable guidelines in paragraph 1 or 2.

(M)

(M) Material now appearing on this sheet previously appeared in Section 1, Second Revised Sheet 54.

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United Telephone Company of Ohio
By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

In accordance with Order No. 06-1115-TP-ZTA
Issued by Public Utilities Commission of Ohio

EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 1
Second Revised Sheet 6
Cancels
First Revised Sheet 6*

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

INTRALATA INTRAEXCHANGE/INTEREXCHANGE PRIVATE LINE SERVICES

IV. UNITED METALLIC (Note 1) (Continued)

(T)

* Also cancels First Revised Sheet 7, 8, 9
Second Revised Sheet 10 and 11
First Revised Sheet 12 through 24
Second Revised Sheet 25
First Revised Sheet 26 and 27
Second Revised Sheet 28 and 29
First Revised Sheet 30 through 40
Second Revised Sheet 41 and 42
First Revised Sheet 43 through 48
First Revised Sheet 50 through 53
Second Revised Sheet 54

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United Telephone Company of Ohio
By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

In accordance with Order No. 06-1115-TP-ZTA
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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 2
First Revised Sheet 1
Cancels
Original Sheet 1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

FOREIGN CENTRAL OFFICE SERVICE

I. DESCRIPTION

Foreign central office service is service furnished a subscriber in a multi-central office exchange from a central office other than the central office from which service would normally be provided but within the same exchange area.

II. GENERAL REGULATIONS

- A. This service is not in accord with the standard plan of furnishing telephone service. Such service is furnished under special conditions when warranted and if the necessary facilities are available.
- B. Foreign central office service is furnished only in connection with business or residence individual lines, key system trunk lines, PBX trunk lines and Centrex trunk lines.
- C. Extension stations and secretarial lines are furnished with foreign central office business and residence individual lines.
- D. Any special treatment required to effect the proper transmission and signaling will be furnished at actual cost incurred by Telephone Company.
- E. A directory listing will be provided with each individual residence and business line. Trunk line listings will be in accordance with Section 2 of the General Exchange Tariff.

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EXHIBIT A

United Telephone
Company of Ohio
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Section 2
First Revised Sheet 2
Cancels
Original Sheet 2

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

FOREIGN CENTRAL OFFICE SERVICE

III. RATES AND CHARGES

The rate for foreign central office service is the monthly rate for a business or residence individual line, key system trunk line or PBX trunk line, as appropriate, applicable in the foreign central office, plus the following rate for each circuit between the central office from which the subscriber normally would be served and the foreign central office from which the subscriber is to be served.

	Monthly <u>Rate</u>
A. Circuit between contiguous central offices in same exchange area, each	\$26.00
B. Circuit between noncontiguous central offices in same exchange area, each	42.00
C. In addition to the above charges, this service will incur all filed service connection, change, and/or move charges as contained in Section 4 of the General Exchange Tariff.	

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 3
First Revised Sheet 0.1
Cancels
Original Sheet 0.1

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

LINK SERVICES

This sheet is reserved for future use.

(T)

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 3
Sixth Revised Sheet 1
Cancels
Fifth Revised Sheet 1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

I. GENERAL

- A. **Digilink, Translink, and Lightlink Services** are furnished for Private Line IntraLATA (T)
Intraexchange and Interexchange communications by the Company.
- B. Digilink, Translink, and Lightlink Services are for the transmission of digital signals and uses digital transmission facilities.
- C. Digilink Service provides for the simultaneous two-way transmission of synchronous digital signals at speeds of 19.2 Kbps, 56.0 Kbps, and 64.0 Kbps, where facilities exist.
- Translink Service provides for the simultaneous two-way transmission of isochronous digital signals at speeds of 128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, and 1.544 Mbps (DS1), where facilities exist.
- Lightlink Service provides for the simultaneous two-way transmission of isochronous digital signals at a speed of 44.736 Mbps (DS3), where facilities exist.
- D. To ensure satisfactory operation, the terminal equipment provided by the customer must be compatible with the Digilink, Translink, and Lightlink Service channel facility provided by the Company.
- E. Unless specified following, the regulations for Digilink, Translink, and Lightlink Services specified herein apply in addition to the regulations set forth in other sections of this tariff.
- F. The rates specified for Digilink, Translink, and Lightlink Services in VII. following contemplate the provision of a digital quality facility utilizing existing interoffice carrier equipment and/or exchange cable facilities compatible with this service. If equipment, new facilities or changes to existing facilities are required for the provision of this service, then charges as specified in Section 5, Special Types of Construction or Facilities, of United Telephone Company's General Exchange Tariff, will apply in addition to the rates for Digilink, Translink, and Lightlink Services.
- G. Temporary Suspension of Service (Vacation Service) as defined in Section 20 of United Telephone Company's General Exchange Tariff, is not allowed.
- H. The minimum period for which Digilink and Translink Services are furnished and for which charges are applicable is six (6) months. The minimum period for Lightlink Service is twelve (12) months.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

II. REGULATIONS

A. Description of Service

1. **Digilink Service** is furnished for the simultaneous two-way transmission of digital signals at synchronous rates of 19.2 Kbps, 56.0 Kbps, and 64.0 Kbps between two or more points located within a LATA. Digilink is furnished for duplex operation only. The required format and interface specifications are contained in Technical Reference Publications TR-NWT-000341 and MDP-326-726. (T)
2. **Translink Service** provides a high capacity channel for the transmission of 1.544 Mbps isochronous serial data having a line code of Bipolar Return-to-Zero (BPRZ). Translink Service is provided between two points located within a LATA. The required format and interface specifications are contained in Technical Reference Publications GR-54 and GR-342. (T)
3. Fractional DS1 channels are also available and provide simultaneous, two-way transmission at contiguous bit rates of 128, 256, 384 and 512 Kbps. Fractional DS1 Channels operate over the combined bandwidth of adjacent channels to create a contiguous bit rate. Due to technical limitations associated with the provision of Fractional DS1 Channels, this service will be offered only in end offices where a compatible channel bank exists and the distance between the central office and the customer designated premises is less than or equal to twelve thousand (12,000) feet.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

- II. REGULATIONS (**Continued**) (T)
- A. Description of Service (**Continued**) (T)
4. **Lightlink Service** provides a high capacity channel for the transmission of 44.736 Mbps isochronous serial data having a line code of bipolar three zero substitution (B3ZS). Lightlink Service is provided between two points located within a LATA. Lightlink Service is available utilizing an electrical interface. The interface will have the characteristics of its respective signal at the point of demarcation. The required format and interface specifications are contained in Technical Reference Publication 62508 and 62411, and the associated Addendum TR-INS-000342 and TR-NPL-000054. (T)
5. A Channel Service Unit (CSU) or appropriate termination equipment provided by the customer is required at a customer's or authorized user's premises to perform such functions as:
- proper termination of the service
 - amplification
 - signal shaping
 - remote loop-back
- g. The design, maintenance and operation of **Digilink, Translink, and Lightlink Services** contemplate communications originating and terminating as, (1) a customer premises to customer premises channel via the Company's Serving Wire Center and/or through remote Serving Wire Centers; (2) a customer premises to the Serving Wire Center and/or remote Serving Wire Centers - partial channel (link); or (3) a central office to central office (interoffice) partial channel (link). (T)

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

II. REGULATIONS (Continued)

(T)

A. Description of Service (Continued)

(T)

7. Service Configurations

There are two types of service configurations over which Link Services are provided: two-point service and multipoint service. Multipoint service is available with **Digilink Service** and involves applications requiring three or more locations. Multipoint service is not available with **Translink Service** or **Lightlink Service**.

(T)

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(T)

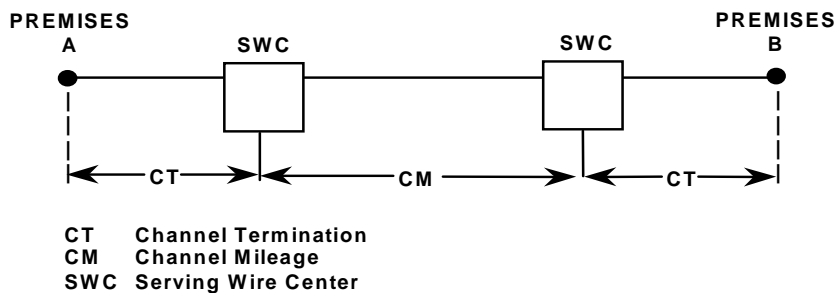
a. Two-Point Service

A two-point service connects two customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed or a customer designated premises.

Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

The following diagram depicts a two-point service connecting two customer designated premises located 15 miles apart.



Applicable rate elements are:

- Channel Terminations (2 applicable)
- Channel Mileage (1 Termination and 15 Facility)

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

- II. REGULATIONS **(Continued)** (T)
- A. Description of Service **(Continued)** (T)
7. Service Configurations **(Continued)** (T)

b. Multipoint Service

Multipoint service connects three or more customer designated premises through a Company hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between hubs (i.e., bridging locations).

Applicable rate elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between each designated customer premises and the hub, and between hubs)
- Additional Optional Features and Functions (when applicable)

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

II. REGULATIONS **(Continued)**

(T)

A. Description of Service **(Continued)**

(T)

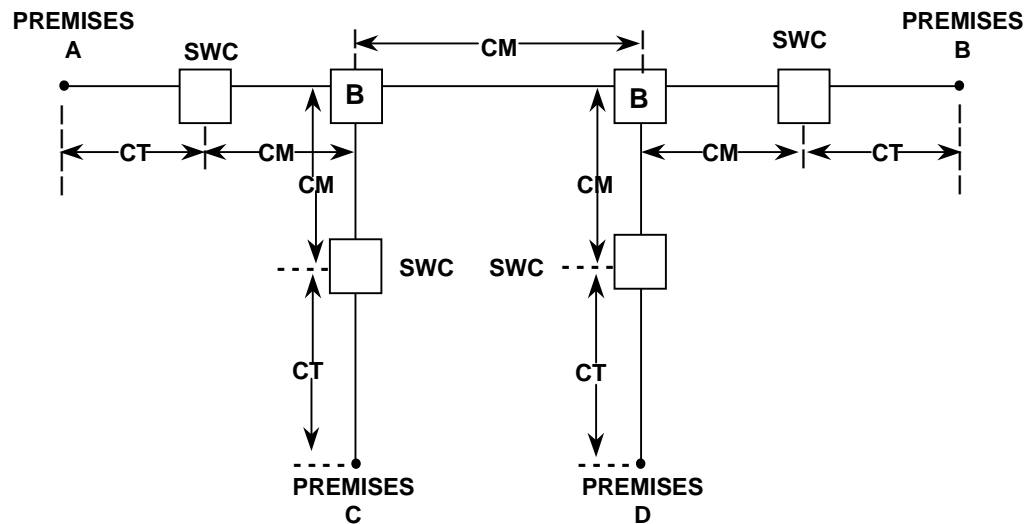
7. Service Configurations **(Continued)**

(T)

b. Multipoint Service **(Continued)**

(T)

The following diagram depicts a service connecting four customer premises via two customer specified bridging hubs.



CT - Channel Termination
CM - Channel Mileage
B - Bridging
SWC - Serving Wire Center

Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage (5 sections, Termination and Facility as appropriate)
- Bridging (6 applicable, i.e., each bridge port)

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LINK SERVICES

II. REGULATIONS **(Continued)**

(T)

B. Definitions

1. Central Office Bridging Capability - Provides for the parallel connection of one virtual circuit to another virtual circuit without interrupting the integrity or continuity of the first. This service is only available from a Company-designated digital hub.
2. Channel Mileage - Provides for the end office equipment and the transmission channel between the Serving Wire Centers associated with two customer designated premises, between a Serving Wire Center associated with a customer designated premises and a Company hub, or between two Company hubs. Channel Mileage is comprised of Channel Mileage Facility (per mile) and Channel Mileage Termination (fixed) rates.
 - a. Channel Mileage Facility (Per Mile) - The Channel Mileage Facility (per mile) recovers the cost for the transmission path that extends between the Company Serving Wire Centers and/or hub(s) and includes primarily outside plant used to provide the facility.
 - b. Channel Mileage Termination (Fixed) - Channel Mileage Termination (fixed) recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at Serving Wire Centers).
3. Channel Service Unit (CSU) - Denotes equipment provided by the customer which performs one or more of the following functions: termination of a digital facility, regeneration of digital signals, detection and/or correction of signal format errors and remote loop back.
4. Channel Termination – The local facility from the customer's designated premises to the Serving Wire Center.
5. Data Amplification – Provides for data transmission when the customer is located beyond the normal range for high speed digital data service. Channel Terminations greater than five (5) cable route miles in length for 19.2 Kbps service or three (3) miles in length for 56 Kbps and 64 Kbps service may require circuit repeaters and associated equipment be installed to regenerate the digital signal in order for accurate and acceptable data transmission to occur. The distances given are an indication of the potential requirement for Data Amplification. The actual distance is dependent on decibel (db) loss and not just physical loop length and is a function of the specific Company cable between the Serving Wire Center and the customer's location.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

II. REGULATIONS **(Continued)**

(T)

B. Definitions **(Continued)**

(T)

6. Clear Channel Capability (CCC) - Denotes the transport of twenty-four, 64 Kbps channels over a 1.544 Mbps Translink Service via B8ZS line code format.
7. Customer Designated Premises - Denotes the premises specified by the customer for the provision of Link Services.
8. DS3 - Denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It has a 44.736 Mbps transmission data rate, and provides for the two-way simultaneous transmission of randomized Non-Return-to-Zero (NRZ) signals with B3ZS format.
9. Hub - A Company designated Serving Wire Center at which bridging or multiplexing functions are performed. The bridging functions performed may be used to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize digital facilities to individual services requiring a lower capacity or bandwidth.
10. Multipoint Service - Connects three or more customer designated premises through a Company hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between hubs (i.e., bridging locations).
11. Nonrecurring Charge - A one-time charge for the initial installation, the installation of functions and features and service rearrangements.
12. Serving Wire Center - Denotes the wire center from which the customer designated premises would normally obtain dial tone from the Company.
13. Two-Point Service - Connects two customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed or a customer designated premises.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

II. REGULATIONS (Continued)

(T)

C. Connections

1. Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems may be connected to **Digilink, Translink and Lightlink Services** when such connection is made in accordance with the provisions specified in 2, 3 and 4 following.

(T)

(T)

2. Responsibility of the Company

- a. The responsibility of the Company shall be limited to the furnishing and maintenance of Digilink, Translink and Lightlink Services to a network interface on the customer's premises where provision is made for the connection of local service.
- b. The Company shall not be responsible for installation, operation or maintenance of any terminal equipment or communications systems provided by the customer. Digilink, Translink and Lightlink Services are not represented as adapted for the use of such equipment or system. Where such equipment or system is connected to Company facilities, the responsibility of the Company shall be limited to the furnishing of facilities suitable for Digilink, Translink and Lightlink Services and to the maintenance and operation in a manner proper for such digital service. The Company shall not be responsible for:
 - The through transmission of signals generated by such equipment or system, or for the quality of, or defects in, such transmission, or
 - The reception of signals by such equipment or systems, or
 - Damage to terminal equipment or communications systems provided by a customer or authorized user due to testing.
- c. The Company shall not be responsible to the customer if changes in any of the facilities, operations or procedures of the Company utilized in the provision of Digilink, Translink and Lightlink Services render any facilities or equipment provided by a customer obsolete, or require modification or alteration of such equipment or system or otherwise affects its use or performance.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

- II. REGULATIONS **(Continued)** (T)
 - C. Connections **(Continued)** (T)
 - 2. Responsibility of the Company **(Continued)** (T)
 - d. The Company is responsible for maintaining and repairing the facilities it furnishes. The customer may not rearrange, disconnect, remove or attempt to repair any equipment installed by the Company without prior written consent of the Company.
 - e. **Digilink, Translink and Lightlink Services** are designed to meet or exceed a performance objective of 99% error-free seconds of transmission per 1000 seconds on a daily basis and 99.9% availability on an annual basis when measured through the digital termination equipment. (T)
 - f. In order to maintain the quality of Digilink, Translink and Lightlink Services, the Company reserves the right to perform preventative maintenance and software updates to the network. The Company has classified maintenance as follows:
 - 1) Scheduled Maintenance

Scheduled maintenance is performed for functions such as hardware and software upgrades and network optimization. The Company will perform these tasks in a maintenance window that is anticipated to minimize disruption of customer service and activity. The Company will provide advance notice of all scheduled maintenance.
 - 2) Demand Maintenance

Demand maintenance may occur as a result of unexpected events and is performed when Digilink, Translink and Lightlink Services network elements are in jeopardy. The Company will perform this type of maintenance at its discretion. Due to the nature of demand maintenance, prior notification may not be possible; however, the customer will be informed when the maintenance has been completed.

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Fifth Revised Sheet 11
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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

- II. REGULATIONS (**Continued**) (T)
- C. Connections (**Continued**) (T)
- 3. Responsibility of the Customer
 - a. The customer is responsible for installing and testing the customer premises equipment or facilities to insure that when they are connected to **Digilink, Translink and Lightlink Services** such equipment or facilities are operating properly. (T)
 - b. The operating characteristics of the customer premises equipment or facilities shall be such as to not interfere with any of the services offered by the Company. Such use is subject to the further provisions that the equipment provided by a customer does not: endanger the safety of Company employees or the public; damage, require change in or alteration of the equipment or other facilities of the Company; interfere with the proper functioning of such equipment or facilities; impair the operation of the Company's facilities or otherwise injure the public in its use of the Company's services. Upon notice that the equipment provided by a customer is causing or is likely to cause such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference. (T)
 - c. The customer's responsibility shall include cooperative testing with the Company as may be necessary. Where regeneration and/or equalization adjustments or changes may be required to compensate for rearrangements and/or changes in outside plant facilities, the customer will be responsible for all expenses incurred in changes to his customer premises equipment.
- 4. Connection of Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems
 - a. The following provisions will apply:
 - 1) Customer-Provided Terminal Equipment and/or Customer-Provided Communications Systems may be connected at the premises of the customer to Digilink, Translink and Lightlink Services.

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Second Revised Sheet 12

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

- II. REGULATIONS **(Continued)** (T)
- C. Connections **(Continued)** (T)
- 4. Connection of Customer-Provided ... **(Continued)** (T)
 - a. The following provisions will apply: **(Continued)** (T)
 - 2) The customers, by use of their own derivation equipment, may create digital bit streams from **Digilink, Translink and Lightlink Services** and such equipment may be connected for transmission of such bit streams when connected through a customer-provided CSU. (T)
 - 3) The undertaking of the Company is to furnish Digilink, Translink and Lightlink Services as ordered and specified by the customer except as specified in d. following.
 - b. Connections to Other Services Furnished by the Company to the Same Customer

Digilink, Translink and Lightlink Services furnished by the Company may be connected by the customer to another service or to other services furnished by the Company as specified in 2. preceding. Connected services are subject to all rules and regulations governing the provisioning of those services.
 - c. Connections to Other Services Furnished by the Company to Different Customers

The customer may connect at the premises of the customer, to another Digilink, Translink and Lightlink Service or other services furnished by the Company to different customers as specified in 2. preceding. Connected services are subject to all rules and regulations governing provisioning of those services.
 - d. Connection of Channel Service Units

A Channel Service Unit (CSU) or appropriate termination equipment must be provided by the customer to connect a Company-provided digital facility. This equipment must comply with the technical requirements outlined in Part 68 of the FCC Rules and Regulations.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

- II. REGULATIONS (**Continued**) (T)
 - C. Connections (**Continued**) (T)
 - 4. Connection of Customer-Provided ... (**Continued**) (T)
 - e. The customer shall be responsible for payment of a Maintenance of Service Charge, as set forth in Section 11 of United Telephone Company's General Exchange Tariff, for visits by the Company to the customer's premises where the service difficulty or trouble report results from the use of equipment or facilities provided by the customer.
 - f. The customer may not rearrange, disconnect, remove or attempt to repair any equipment installed by the Company without the prior written consent of the Company.
 - g. For maintenance purposes, upon request of the Company, the customer will be responsible for notifying the Company of the type of digital terminating equipment used.
- III. TERM DISCOUNT PLAN (TDP)
 - A. A Term Discount Plan (TDP) provides the customer with discounted rates for **Digilink, Translink and Lightlink Services**. Digilink, Translink and Lightlink Service may be ordered under a TDP for fixed periods of 12 - 23 months, 24 - 35 months, 36 - 59 months, and 60 - 84 months. For Lightlink Service, month-to-month rates may apply only after the expiration of a TDP. All rate elements within the same Digilink, Translink and Lightlink Service facilities must be ordered under the same commitment period and under the same service date. The customer must order the TDP in writing to the Company. A TDP may be ordered in one-month increments, (e.g. a 28-month commitment period or a 37-month commitment period). (T)
 - B. The customer must specify the length of the initial service period at the time the service is ordered. When a customer converts to a TDP, Nonrecurring Charges do not apply toward facilities in-service at that time. If a customer converts from month-to-month rates to a TDP or upgrades from one TDP to another, Nonrecurring Charges and Service Connection Charges do not apply.
 - C. At the end of the TDP the customer may subscribe to a new TDP at the prevailing rates set forth in VII. following. If the customer does not select a new TDP, the rates will convert to the prevailing month-to-month rates.
 - D. Rate increases or decreases will automatically be applied to the monthly term plan rates for the remaining term of the TDP. If Company initiated rate increases to any rate element or combination of rate elements causes the charges for the entire Digilink, Translink or Lightlink Service under the TDP to increase by 10% or more annually, then the customer may cancel the TDP without incurring termination liability charges provided the customer notifies the Company within 30 days after the effective date of the rate increase.* (T)

* Customers under contract prior to April 14, 2003, are grandfathered pursuant to the terms and conditions outlined in the contract.

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LINK SERVICES

III. TERM DISCOUNT PLAN (TDP) (**Continued**) (T)

- E. The customer can extend TDP commitment periods at any time during the term of the plan, up to a maximum of 84 months. The number of remaining months in the original term plan will become part of the total term in the new term plan.

IV. TERMINATION LIABILITY CHARGES

- A. If a customer under a Term Discount Plan (TDP) disconnects all or a portion of **Digilink, Translink or Lightlink Service** prior to the expiration of the TDP, then a Termination Liability Charge will apply to those services that are disconnected. The Termination Liability Charge will be a one-time charge equal to sum of 50% of the payments remaining for the rest of the TDP.* (T)
- B. Customers may move Channel Terminations and not be subject to Termination Liability Charges providing the terms of the TDP are maintained. If charges as specified in I.F. were applied to the service being terminated or moved, any termination or move charges associated with that construction apply, as well as any construction charges at the new location. (T)
- C. Termination Liability Charges will not apply when a service or rate element under a TDP is disconnected prior to the expiration of a selected service period as a result of a change in tariff jurisdiction and/or a customer requested upgrade to a next generation service offering, under the following conditions:
1. The service period of the new TDP for the new service offering is a period equal to or exceeding the remaining service period of the disconnected TDP, and
 2. The service orders to install the new service and disconnect the old service are related together, and there is no lapse in service between the installation of the new service and the disconnection of the old service, and
 3. The service orders to install the new service and disconnect the old service are for the same customer at the same location.
- D. The Company will determine whether the replacement service qualifies as a next generation service offering.
- E. Nonrecurring charges and Service Connection Charges for the new service will apply according to the requirements of the new service.
- F. Commission approval of the above termination liability language is not intended to indicate that the commission has approved or sanctioned any terms or provisions contained therein. Signatories to such contracts shall be free to pursue whatever legal remedies they may have should a dispute arise.

* Customers under contract prior to April 14, 2003, are grandfathered pursuant to the terms and conditions outlined in the contract.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

V. RATE CATEGORIES

A. **Digilink Service**

(T)

There are two rate categories which apply to **Digilink Service**:

(T)

- Channel Termination
- Channel Mileage

1. Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the Serving Wire Center. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the service is to be connected at the point of termination (POT) and the type of signaling capability if any. The signaling capability itself is provided as a part of this rate category. One Channel Termination charge applies per customer designated premises at which the channel is terminated. Channel Termination charges are set forth in VII.A.

2. Channel Mileage

The Channel Mileage rate category provides for the end office equipment and the transmission channel between the Serving Wire Centers associated with two customer designated premises, between a Serving Wire Center associated with a customer designated premises and a Company hub, or between two Company hubs. Channel Mileage rates are made up of the Channel Mileage Facility (per mile) rate and the Channel Mileage Termination (fixed) rate. Channel Mileage charges are set forth in VII.B.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

V. RATE CATEGORIES **(Continued)** (T)

A. **Digilink Service (Continued)** (T)

2. Channel Mileage **(Continued)** (T)

a. Channel Mileage Facility (Per Mile)

The Channel Mileage Facility (per mile) rate recovers the cost for the transmission path, which extends between the Company Serving Wire Centers and/or hub(s) and includes primarily outside plant used to provide the facility.

b. Channel Mileage Termination (Fixed)

The Channel Mileage Termination (fixed) rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at Serving Wire Centers). The Company applies a 50% billing percentage to the channel mileage fixed rate on jointly owned circuits, and applies 100% on wholly owned circuits. When the Channel Mileage Facility (per mile) is zero (i.e., collocated Serving Wire Centers), neither the Channel Mileage Facility (per mile) rate nor the Channel Mileage Termination (fixed) rate will apply.

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LINK SERVICES

V. RATE CATEGORIES (**Continued**)

(T)

B. **Translink Service**

(T)

There are two rate categories which apply to Translink Service:

- Channel Termination
- Channel Mileage

1. Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the Serving Wire Center. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the service is to be connected at the point of termination (POT) and the type of signaling capability if any. The signaling capability itself is provided as a part of this rate category. One Channel Termination charge applies per customer designated premises at which the channel is terminated. Channel Termination charges are set forth in VII.A.

2. Channel Mileage

The Channel Mileage rate category provides for the end office equipment and the transmission channel between the Serving Wire Centers associated with two customer designated premises, between a Serving Wire Center associated with a customer designated premises and a Company hub, or between two Company hubs. Channel Mileage rates are made up of the Channel Mileage Facility (per mile) rate and the Channel Mileage Termination (fixed) rate. Channel Mileage charges are set forth in VII.B.

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EXHIBIT A

United Telephone
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LINK SERVICES

V. RATE CATEGORIES **(Continued)** (T)

B. **Translink Service (Continued)** (T)

2. Channel Mileage **(Continued)** (T)

a. Channel Mileage Facility (Per Mile)

The Channel Mileage Facility (per mile) rate recovers the cost for the transmission path, which extends between the Company Serving Wire Centers and/or hub(s) includes primarily outside plant used to provide the facility.

b. Channel Mileage Termination (Fixed)

The Channel Mileage Termination (fixed) rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at Serving Wire Centers). The Company applies a 50% billing percentage to the channel mileage fixed rate on jointly owned circuits, and applies 100% on wholly owned circuits. When the Channel Mileage Facility (per mile) is zero (i.e., collocated Serving Wire Centers), neither the Channel Mileage Facility (per mile) rate nor the Channel Mileage Termination (fixed) rate will apply.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

V. RATE CATEGORIES (**Continued**)

(T)

C. **Lightlink Service**

(T)

There are two rate categories which apply to **Lightlink Service**:

(T)

- Channel Termination
- Channel Mileage

1. Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the Serving Wire Center. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the service is to be connected at the point of termination (POT) and the type of signaling capability if any. The signaling capability itself is provided as a part of this rate category. One Channel Termination charge applies per customer designated premises at which the channel is terminated. The charges applicable to the Channel Termination vary based on distance, as set forth in VII.A. following.

2. Channel Mileage

The Channel Mileage rate category provides for the end office equipment and the transmission channel between the Serving Wire Centers associated with two customer designated premises, between a Serving Wire Center associated with a customer designated premises and a Company hub, or between two Company hubs. Channel Mileage rates are made up of the Channel Mileage Facility (per mile) rate and the Channel Mileage Termination (fixed) rate. Channel Mileage charges are set forth in VII.B.

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LINK SERVICES

V. RATE CATEGORIES **(Continued)** (T)

C. **Lightlink Service (Continued)** (T)

2. Channel Mileage **(Continued)** (T)

a. Channel Mileage Facility (Per Mile)

The Channel Mileage Facility (per mile) rate recovers the cost for the transmission path, which extends between the Company Serving Wire Centers and/or hub(s) includes primarily outside plant used to provide the facility.

b. Channel Mileage Termination (Fixed)

The Channel Mileage Termination (fixed) rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at Serving Wire Centers). The Company applies a 50% billing percentage to the channel mileage fixed rate on jointly owned circuits, and applies 100% on wholly owned circuits. When the Channel Mileage Facility (per mile) is zero (i.e., collocated Serving Wire Centers), neither the Channel Mileage Facility (per mile) rate nor the Channel Mileage Termination (fixed) rate will apply.

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LINK SERVICES

V. RATE CATEGORIES (**Continued**)

(T)

D. Optional Features and Functions - Applicable to **Translink and Lightlink Service**

(T)

Optional Features and Functions may be added to improve the quality or utility to meet the customer's specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics, which may be obtained. These characteristics may be obtained by using various combinations of equipment. Optional Features and Functions that are available include the following:

1. Central Office Multiplexing

DS3 to DS1 - An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing. Central Office Multiplexing is not available at the customer's premises.

DS1 to DS0 - An arrangement that converts a 1.544 Mbps channel to twenty-four (24) 64.0 Kbps channels utilizing digital time division multiplexing. Central Office Multiplexing is not available at the customer's premises.

2. Clear Channel Capability (CCC)

Clear Channel Capability (CCC) is an arrangement that alters a DS1/1.544 Mbps signal with unconstrained information bits to meet pulse density requirements outlined in Technical Reference Publications GR-54 and GR-342. This will allow a customer to transport an all zero octet over a DS1/1.544 Mbps channel providing an available combined maximum 1.536 Mbps data rate. This arrangement requires the customer signal at the channel interface to conform to Bipolar with 8 Zero Substitution (B8ZS) line code as described in Technical Reference Publications GR-54 and GR-342.

CCC is provided on DS1/1.544 Mbps channels of a **Translink and Lightlink Service** facility between two customer designated premises and is subject to the availability of facilities. This optional feature may be ordered at the same time the Translink and Lightlink Service channel is ordered, or it may be ordered as an additional feature of an existing Translink and Lightlink Service channel.

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LINK SERVICES

V. RATE CATEGORIES (T)

D. Optional Features and Functions - Applicable to **Translink and Lightlink Service** (T) (Continued)

3. Extended Superframe Format (ESF)

The ESF optional feature is available at suitably equipped end offices, and passes a customer provided framing format for 1.544 Mbps service. ESF extends the customer's 1.544 Mbps framing structure from twelve (12) to twenty-four (24) frames and divides the 8 Kbps 193rd bit position pattern into three distinct functionalities: 2 Kbps for frame synchronization, 2 Kbps for cyclic redundancy checking, and 4 Kbps used primarily for performance monitoring information.

4. Multiplexed Service Connection

For Translink Service, a Multiplexed Service Connection is an arrangement that allows one DS0 channel of a multiplexed Company service to be connected to one DS0 channel with like signaling of another Company service. A Multiplexed Service Connection will be provided at all Company locations where Central Office Multiplexing is performed.

For **Lightlink Service**, a Multiplexed Service Connection is an arrangement that allows one DS1 channel of a multiplexed Company service to be connected to one DS1 channel with like signaling of another Company service. For example, the lesser speed may be an ISDN-PRI DS1 channel connected between a multiplexed DS3 service. A Multiplexed Service Connection will be provided at all Company locations where Central Office Multiplexing is performed. (T)

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

VI. APPLICATION OF RATES

A. **Digilink Service**

(T)

1. Each **Digilink Service** facility may be comprised of two or more Channel Terminations. Where both customer premises are served by the same Serving Wire Center, the service will consist of two or more Channel Terminations. Where each customer premises is served by different Serving Wire Centers, the service will consist of two or more Channel Terminations, one Channel Mileage Termination (fixed) and the Channel Mileage Facility (per mile) between Serving Wire Centers and/or hub(s). (T)
2. Intraexchange channels furnished between Company central offices will be charged at rates based on airline distance between the central offices. Interexchange channels will be charged at rates based on airline distance between Company central offices. Fractional mileage will be rounded up to the next full mile. The mileage measurement is determined by utilizing exchange maps and mileage tables located in designated Company offices for such purposes.
3. Whenever facilities are provided jointly by the Company and another telephone company, the regulations, rates and charges of the other telephone company shall apply for the equipment and facilities furnished by the other telephone company for use in connection with Digilink Service. The Company applies a 50% billing percentage to the Channel Mileage Termination (fixed) rate on jointly owned circuits, and applies 100% on wholly owned circuits. When the Channel Mileage Facility (per mile) is zero (i.e., collocated Serving Wire Centers), neither the Channel Mileage Facility (per mile) rate nor the Channel Mileage Termination (fixed) rate will apply.

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LINK SERVICES

VI. APPLICATION OF RATES **(Continued)**

(T)

A. **Digilink Service (Continued)**

(T)

4. Data Amplification provides for data transmission when the customer is located beyond the normal range for high speed digital data service. Local channel terminations greater than five (5) cable route miles in length for 19.2 Kbps service or three (3) miles in length for 56 Kbps and 64 Kbps service may require circuit repeaters and associated equipment be installed to regenerate the digital signal in order for accurate and acceptable data transmission to occur. The distances given are an indication of the potential requirement for Data Amplification. The actual distance is dependent on decibel (db) loss and not just physical loop length and is a function of the specific Company cable between the serving wire center and the customer's location. Applications requiring Data Amplification may also require special construction charges, Special Types of Construction or Facilities, as specified in Section 5 of United Telephone Company's General Exchange Tariff.
5. One Central Office Bridging Capability charge applies per port. When more than one Serving Wire Center is involved, the origin of the bridge(s) will dictate if there are additional interoffice transport charges (i.e., Channel Mileage Facility, Per Mileage). Refer to diagrams in II.A.7. preceding.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

VI. APPLICATION OF RATES (**Continued**)

(T)

B. **Translink Service**

(T)

1. Each **Translink Service** facility is comprised of two Channel Terminations. Where both customer premises are served by the same Serving Wire Center, the service will consist of two Channel Terminations. Where each customer premises is served by different Serving Wire Centers, the service will consist of two Channel Terminations, one Channel Mileage Termination (fixed) and the Channel Mileage Facility (per mile) between Serving Wire Centers and/or hub(s). (T)
2. Intraexchange channels furnished between Company central offices will be charged at rates based on airline distance between the central offices. Interexchange channels will be charged at rates based on airline distance between Company central offices. Fractional mileage will be rounded up to the next full mile. The mileage measurement is determined by utilizing exchange maps and mileage tables located in designated Company offices for such purposes.
3. Whenever facilities are provided jointly by the Company and another telephone company, the regulations, rates and charges of the other telephone company shall apply for the equipment and facilities furnished by the other telephone company for use in connection with Translink Service. The Company applies a 50% billing percentage to the Channel Mileage Termination (fixed) rate on jointly owned circuits, and applies 100% on wholly owned circuits. When the Channel Mileage Facility (per mile) is zero (i.e., collocated Serving Wire Centers), neither the Channel Mileage Facility (per mile) rate nor the Channel Mileage Termination (fixed) rate will apply.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

VI. APPLICATION OF RATES (**Continued**)

(T)

C. **Lightlink Service**

(T)

1. Each **Lightlink Service** facility may be comprised of one or two Channel Terminations. Where both customer premises are served by the same Serving Wire Center, the service will consist of two Channel Terminations. Where each customer premises is served by different Serving Wire Centers, the service will consist of two Channel Terminations, one Channel Mileage Termination (fixed) and the Channel Mileage Facility (per mile) between Serving Wire Centers and/or hub(s). Where one customer premises is involved, the Channel Termination of a lower bandwidth service can be replaced with a Lightlink Service Channel Termination. For example, the Channel Termination associated with ISDN-PRI Service, referred to as an ISDN-PRI Primary Rate Access Line, can be replaced with a Lightlink Service Channel Termination to connect the ISDN-PRI Service to the Serving Wire Center of the customer's designated premises. (T)
2. The Channel Termination rate element for Lightlink Service will vary based on distance. The mileage used to determine the monthly rate for Channel Terminations located outside a Company central office is the airline distance between the customer's designated premises and the Company's Serving Wire Center. The mileage measurement is determined by utilizing exchange maps and mileage tables located in designated Company offices for such purposes.
3. Intraexchange channels furnished between Company central offices will be charged at rates based on airline distance between the central offices. Interexchange channels will be charged at rates based on airline distance between Company central offices. Fractional mileage will be rounded up to the next full mile.
4. Whenever facilities are provided jointly by the Company and another telephone company, the regulations, rates and charges of the other telephone company shall apply for the equipment and facilities furnished by the other telephone company for use in connection with Lightlink Service. The Company applies a 50% billing percentage to the Channel Mileage Termination (fixed) rate on jointly owned circuits, and applies 100% on wholly owned circuits. When the Channel Mileage Facility (per mile) is zero (i.e., collocated Serving Wire Centers), neither the Channel Mileage Facility (per mile) rate nor the Channel Mileage Termination (fixed) rate will apply.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

VII. RATES AND CHARGES

	<u>Monthly Rate</u>	<u>Nonrecurring Charge Installation</u>	<u>Nonrecurring Charge Rearrangement</u>	
A. Channel Termination - Per Point of Termination				
1. Digilink Service				(T)
19.2 Kbps				
Month to Month	\$106.00	\$300.00	\$150.00	
12 - 23 Months	101.00	300.00	150.00	
24 - 35 Months	96.00	300.00	150.00	
36 - 59 Months	82.00	300.00	150.00	
60 - 84 Months	70.00	300.00	150.00	
56.0 Kbps, 64.0 Kbps				
Month to Month	118.00	300.00	150.00	
12 - 23 Months	110.00	300.00	150.00	
24 - 35 Months	105.00	300.00	150.00	
36 - 59 Months	87.00	300.00	150.00	
60 - 84 Months	76.00	300.00	150.00	

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First Revised Sheet 28
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P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

LINK SERVICES

VII. RATES AND CHARGES **(Continued)**

		<u>Monthly Rate</u>	<u>Nonrecurring Charge Installation</u>	<u>Nonrecurring Charge Rearrangement</u>	(T)
A.	Channel Termination (Continued) - Per Point of Termination				(T)
2.	Translink Service				(T)
	128 Kbps				
	Month to Month	\$150.00	\$400.00	\$200.00	
	12 - 23 Months	143.00	300.00	200.00	
	24 - 35 Months	140.00	300.00	200.00	
	36 - 59 Months	137.00	300.00	200.00	
	60 - 84 Months	131.00	300.00	200.00	
	256 Kbps				
	Month to Month	165.00	400.00	200.00	
	12 - 23 Months	157.00	400.00	200.00	
	24 - 35 Months	153.00	400.00	200.00	
	36 - 59 Months	150.00	400.00	200.00	
	60 - 84 Months	144.00	400.00	200.00	
	384 Kbps				
	Month to Month	180.00	400.00	200.00	
	12 - 23 Months	171.00	400.00	200.00	
	24 - 35 Months	167.00	400.00	200.00	
	36 - 59 Months	164.00	400.00	200.00	
	60 - 84 Months	158.00	400.00	200.00	
	512 Kbps				
	Month to Month	210.00	400.00	200.00	
	12 - 23 Months	200.00	400.00	200.00	
	24 - 35 Months	195.00	400.00	200.00	
	36 - 59 Months	191.00	400.00	200.00	
	60 - 84 Months	184.00	400.00	200.00	
	1.544 Mbps				
	Month to Month	\$240.00	\$400.00	\$200.00	
	12 - 23 Months	233.00	400.00	200.00	
	24 - 35 Months	228.00	400.00	200.00	
	36 - 59 Months	220.00	400.00	200.00	
	60 - 84 Months	194.00	400.00	200.00	

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

VII. RATES AND CHARGES **(Continued)**

(T)

	<u>Monthly Rate</u>	<u>Nonrecurring Charge Installation</u>	<u>Nonrecurring Charge Rearrangement</u>
A. Channel Termination (Continued)			
- Per Point of Termination			

(T)

3. Lightlink Service

(T)

44.736 Mbps			
Month to Month ¹			
Within CO	\$1,200.00	N/A	\$250.00
0-3 miles	1,895.00	N/A	250.00
Over 3 miles	2,820.00	N/A	250.00
12 - 23 Months			
Within CO	1,200.00	\$0.00	0.00
0-3 miles	1,895.00	0.00	0.00
Over 3 miles	2,820.00	0.00	0.00
24 - 35 Months			
Within CO	1,200.00	0.00	0.00
0-3 miles	1,895.00	0.00	0.00
Over 3 miles	2,820.00	0.00	0.00
36 - 59 Months			
Within CO	1,139.25	0.00	0.00
0-3 miles	1,783.95	0.00	0.00
Over 3 miles	2,654.60	0.00	0.00
60 - 84 Months			
Within CO	996.80	0.00	0.00
0-3 miles	1,561.35	0.00	0.00
Over 3 miles	2,320.50	0.00	0.00

¹Month-to-month rates are available only after the expiration of one of the Term Discount Plans.

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LINK SERVICES

VII. RATES AND CHARGES (Continued)

(T)

	Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>
B. Channel Mileage		
1. Termination (Fixed) - Per Circuit		
a. Digilink Service		(T)
19.2 Kbps, 56.0 Kbps, 64.0 Kbps		
Month to Month	\$85.00	\$0.00
12 - 23 Months	83.00	0.00
24 - 35 Months	80.00	0.00
36 - 59 Months	67.00	0.00
60 - 84 Months	58.00	0.00
b. Translink Service		(T)
128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, 1.544 Mbps		
Month to Month	\$135.00	\$0.00
12 - 23 Months	128.00	0.00
24 - 35 Months	126.00	0.00
36 - 59 Months	123.00	0.00
60 - 84 Months	118.00	0.00
c. Lightlink Service		(T)
44.736 Mbps		
Month to Month ¹	\$625.00	N/A
12 - 23 Months	625.00	\$0.00
24 - 35 Months	625.00	0.00
36 - 59 Months	588.90	0.00
60 - 84 Months	514.80	0.00

¹Month-to-month rates are available only after the expiration of one of the Term Discount Plans.

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LINK SERVICES

VII. RATES AND CHARGES (Continued)

(T)

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
B. Channel Mileage (Continued)			(T)
2. Facility (Per Mile)			
a. Digilink Service			(T)
19.2 Kbps, 56.0 Kbps, 64.0 Kbps			
Month to Month	\$1.35	\$0.00	
12 - 23 Months	1.30	0.00	
24 - 35 Months	1.25	0.00	
36 - 59 Months	1.13	0.00	
60 - 84 Months	.90	0.00	
b. Translink Service			(T)
128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, 1.544 Mbps			
Month to Month	\$14.00	\$0.00	
12 - 23 Months	13.30	0.00	
24 - 35 Months	13.02	0.00	
36 - 59 Months	12.74	0.00	
60 - 84 Months	12.25	0.00	
c. Lightlink Service			(T)
44.736 Mbps			
Month to Month ¹	\$150.00	N/A	
12 - 23 Months	150.00	\$0.00	
24 - 35 Months	150.00	0.00	
36 - 59 Months	140.00	0.00	
60 - 84 Months	122.40	0.00	

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PRIVATE LINE SERVICE TARIFF

LINK SERVICES

VII. RATES AND CHARGES **(Continued)**

		Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>	(T)
C.	Optional Features and Functions			
1.	Translink Service			(T)
a.	Central Office Multiplexing DS1 to DS0 - Per Arrangement			
	Month to Month	\$375.00	\$125.00	
	12 – 23 Months	325.00	125.00	
	24 – 35 Months	300.00	125.00	
	36 – 59 Months	275.00	125.00	
	60 – 84 Months	250.00	125.00	
b.	Clear Channel Capability (CCC) - Per Channel Termination	\$0.00	\$304.00	
c.	Extended Superframe Format (ESF) - Per Channel Termination	N/A	N/A	
d.	Multiplexed Service Connection - Per DS0	\$8.00	\$100.00	
2.	Lightlink Service			(T)
a.	Central Office Multiplexing DS3 to DS1 - Per Arrangement			
	Month to Month ¹	\$515.00	N/A	
	12 – 23 Months	515.00	\$92.00	
	24 – 35 Months	515.00	92.00	
	36 – 59 Months	515.00	92.00	
	60 – 84 Months	515.00	92.00	
b.	Clear Channel Capability (CCC) ² - Per Channel Termination	\$0.00	\$304.00	
c.	Multiplexed Service Connection - Per DS1	\$3.00	\$60.00	

¹ Month-to-month rates are available only after the expiration of one of the Term Discount Plans.

² A nonrecurring charge will apply when Clear Channel Capability is ordered for a DS1 circuit already in service and will not apply when provided as part of the initial installation.

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United Telephone Company of Ohio
By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 3
First Revised Sheet 33
Cancels
Original Sheet 33

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

VII. RATES AND CHARGES (Continued)

(T)

	Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>
D. Data Amplification ¹ - Per Repeater	\$85.00	\$100.00
E. Central Office Bridging Capability ¹ - Per Port		
19.2 Kbps, 56.0 Kbps, 64.0 Kbps		
Month to Month	\$25.00	\$100.00
12 - 23 Months	22.00	100.00
24 - 35 Months	20.00	100.00
36 - 59 Months	18.00	100.00
60 - 84 Months	16.00	100.00

¹Circuit Repeater and Central Office Bridging Capability only apply to **Digilink Service**.

(T)

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EXHIBIT A

United Telephone
Company of Ohio
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Section 3
First Revised Sheet 34
Cancels
Original Sheet 34

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

LINK SERVICES

VII. RATES AND CHARGES **(Continued)**

(T)

F. Nonrecurring Charge

The Installation Nonrecurring Charge is applicable for the initial installation of a Channel Termination to a given Serving Wire Center. The Rearrangement Nonrecurring Charge is applicable for any rearrangement of an existing Channel Termination.

G. Move Charges

A Move Charge applies for Channel Terminations moved to a new location, even when moved on the same premises. The Move Charge is equal to the Channel Termination Installation Nonrecurring Charge and applies in addition to the Initial Service Order Charge located in Section 4 of United Telephone Company's General Exchange Tariff.

H. Service Charges

An Initial Service Order Charge as set forth in Section 4 of United Telephone Company's General Exchange Tariff is applicable per customer request. Nonrecurring Charges specified in this tariff section are in lieu of all other Service Connection Charges.

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embargo

Section 4
Third Revised Sheet 1
Cancels
Second Revised Sheet 1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

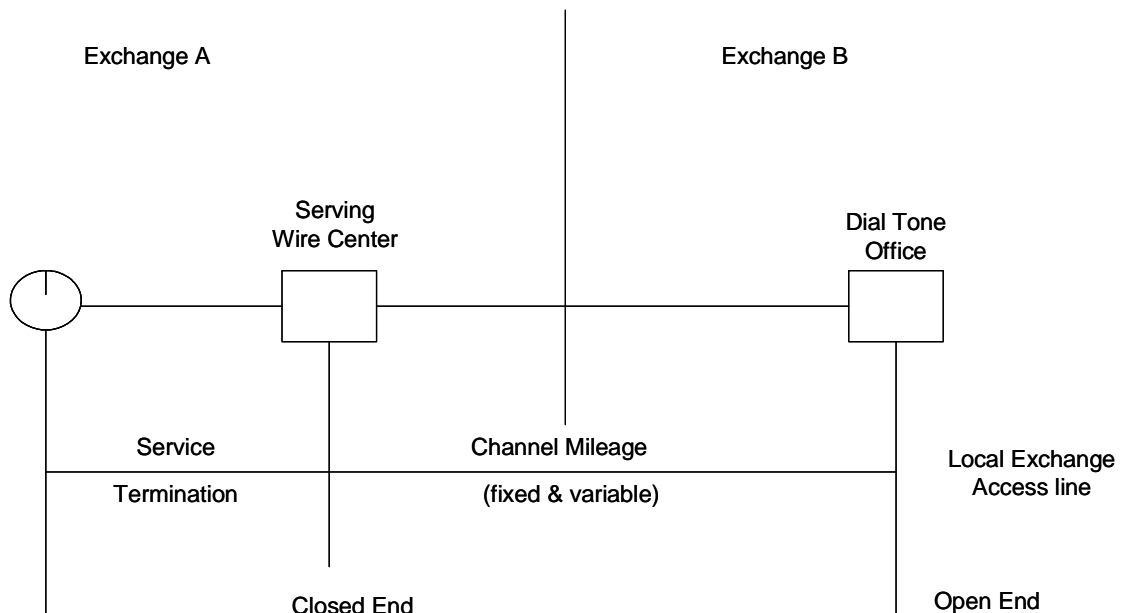
FOREIGN EXCHANGE TELEPHONE SERVICE

I. DESCRIPTION

Foreign exchange (FX) telephone service is an exchange service furnished from an exchange other than the one from which the customer would normally be served.

II. REGULATIONS, RATES AND CHARGES

- A. Whenever facilities are provided jointly by the Telephone Company and one or more other telephone companies, the regulations, rates and charges of such other telephone companies apply for the equipment and facilities furnished by them for use in connection with the interexchange service provided by the Telephone Company.
- B. The regulations, rates and charges for the closed end of foreign exchange telephone service are as specified for voice grade private line service in Sections 3 and 5 of this tariff.
- C. The rate for the open (dial-tone) end of foreign exchange telephone service will be the applicable flat-rate local exchange access line rate as contained in the Local Exchange Tariff. See figure below for applicable rate elements.



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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 5
Fourth Revised Sheet 1
Cancels
Third Revised Sheet 1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

- I. DESCRIPTION** (T)
- InterLATA interexchange private line service is the furnishing of Telephone Company facilities for interLATA communications by customers, authorized users or joint users between specified locations, 24 hours daily, seven days per week, except as otherwise specifically stated.
- II. GENERAL REGULATIONS** (T)
- A.** InterLATA private line services are furnished only where the Telephone Company can provide interexchange facilities. (T)
- B.** Regulations and rates contained herein apply to private line service between two or more points between exchange areas. (T)
- C.** Where it is necessary to use interexchange or local channel facilities of another telephone company in order to furnish a private line service, such service will be furnished only if satisfactory arrangements can be made with the other company. (T)
- D.** The Telephone Company is not liable for any act or omission of any other telephone company furnishing a portion of the service. (T)

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By Chad R. Eckhart, Vice President - Regulatory
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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 5
Fifth Revised Sheet 2
Cancels
Fourth Revised Sheet 2

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

III. DESCRIPTION OF SERVICES (T)

A. VOICE GRADE SERVICES (T)

The description and type of service provided is the same as that described in Section 1 of this Tariff.

Rates and Charges – See Section 5.D.1

B. TRANSLINK (T)

The description, general regulations, responsibility of the customer, and responsibility of the Company are the same as found in Section 3 of this Tariff.

Rates and Charges –See Section 5.E.1.

C. DIGILINK (T)

The description, general regulations, responsibility of the customer, and responsibility of the Company are the same as found in Section 3 of this Tariff.

Rates and Charges –See Section 5.F.1.

D. LIGHTLINK (T)

The description and type of service provided is the same as that described in Section 3 of this Tariff.

Rates and Charges - See Section 5.G.1.

(D)

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 5
Sixth Revised Sheet 3
Cancels
Fifth Revised Sheet 3

P.U.C.O. NO. 1

PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

IV. VOICE GRADE SERVICES

(T)

A. Rates and Charges

(T)

	Monthly Rate	<u>Nonrecurring Charge</u>	
		<u>First</u>	<u>Additional</u>
1. Channel Termination* - Per Point of Termination			
2-Wire	\$ 65.00	\$ 227.00	\$ 100.00
4-Wire	102.00	277.00	100.00
2. Channel Mileage*			
Fixed	74.00	0.00	
Per Mile	3.00	0.00	
3. Optional Features and Functions			
a. Bridging – Per Port			
- Voice Bridging	7.00	71.00	
- Data Bridging	6.00	105.00	
b. Conditioning – Per Point of Termination			
- C-Type	5.50	71.00	
- Improved Attenuation Distortion	14.00	71.00	
- Improved Envelope Delay Distortion	81.00	71.00	
- Improved Return Loss 2-Wire	5.00	53.00	
- Improved Return Loss 4-Wire	6.00	71.00	
- Improved Termination 2-Wire	3.00	39.55	
- Improved Termination 4-Wire	4.00	39.55	

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*These rates are applicable to WATS services provided over voice grade facilities.

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EXHIBIT A

United Telephone
Company Of Ohio
d/b/a Embargo

Section 5
Fifth Revised Sheet 3.1
Cancels
Fourth Revised Sheet 3.1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

V. TRANSLINK

(T)

A. Rates and Charges

(T)

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
		<u>First</u>	<u>Additional</u>
1. Local Channel Termination - Per Point of Termination			
1.544 Mbps			
Month to Month	\$ 435.00	\$ 592.00	\$ 200.00
12 - 23 Months	415.00	0.00	0.00
24 - 35 Months	395.00	0.00	0.00
36 - 59 Months	355.00	0.00	0.00
60 - 84 Months	315.00	0.00	0.00
2. Local Channel Termination - Fractional DS1 - Per Point of Termination			
128 Kbps			
Month to Month	147.00	350.00	0.00
256 Kbps			
Month to Month	190.00	350.00	0.00
384 Kbps			
Month to Month	233.00	350.00	0.00
3. Interoffice Channel, Fixed - Per Circuit			
128 Kbps			
Month to Month	104.00	0.00	0.00
256 Kbps			
Month to Month	108.00	0.00	0.00
384 Kbps			
Month to Month	112.00	0.00	0.00
1.544 Mbps			
- Month-to-Month	195.00	0.00	0.00
- 12 - 23 Months	185.00	0.00	0.00
- 24 - 35 Months	175.00	0.00	0.00
- 36 - 59 Months	160.00	0.00	0.00
- 60 - 84 Months	145.00	0.00	0.00

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(T)

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 5
Third Revised Sheet 3.2
Cancels
Second Revised Sheet 3.2

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

V. TRANSLINK (Continued)			(T)
A. Rates and Charges (Continued)			(T)
	<u>Monthly Rate</u>	<u>NRC</u>	
4. Interoffice Channel, Per Mile			(T)
-Per Mile			
128 Kbps			
Month to Month	\$ 4.20	\$ 0.00	
256 Kbps			
Month to Month	8.40	0.00	
384 Kbps			
Month to Month	12.60	0.00	
1.544 Mbps			
Month to Month	25.00	0.00	
12 - 23 Months	25.00	0.00	
24 - 35 Months	25.00	0.00	
36 - 59 Months	24.00	0.00	
60 - 84 Months	20.20	0.00	
5. Optional Features			(T)
a. Central Office Multiplexing			(T)
- Per Arrangement			
1) DS1 to Voice	525.00	210.00	(T)
2) DS1 to DS0	525.00	210.00	(T)
b. Clear Channel Capability (CCC)			(T)
- Per Channel Termination	0.00	304.00	
c. Extended Superframe Format (ESF)			(T)
- Per Channel Termination	N/A	N/A	

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 5
Second Revised Sheet 4
Cancels
First Revised Sheet 4

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

V. TRANSLINK (Continued)

(T)

A. Rates and Charges (Continued)

(T)

5. Optional Features (Continued)

(T)

		<u>Monthly Rate</u>	<u>NRC</u>	
d.	Digital Cross Connect Service			(T)
1)	Connection Charge			
(a)	Per DS0 Connection	\$ 7.50	\$ 21.00	
(b)	Per DS1 Connection	70.00	53.00	
2)	Bridging, Per Termination - Per Termination	5.30	10.00	(T)
3)	Subrate Multiplexing - Per Subrate Channel	7.40	5.00	(T)
4)	Company Performed Reconfiguration - Per 30 minute increment, per occasion	N/A	22.95	(T)
e.	Multiplexed Access Service Connection (MASC)			(T)
1)	DS0 Level	2.00	50.00	
2)	DS1 Level	3.00	60.00	
6.	Nonrecurring Charge			(T)

The First Nonrecurring Charge is applicable for the first Local Channel Termination to a given Central Office. The Additional Nonrecurring Charge is applicable for each subsequent Local Channel Termination added to the same route for a given Central Office.

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 5
Second Revised Sheet 5
Cancels
First Revised Sheet 5

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

VI. DIGILINK (Continued)

(T)

A. Rates and Charges

(T)

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
		<u>First</u>	<u>Add'l</u>
1. Local Channel Termination - Per Point of Termination			
2.4 Kbps Month to Month	\$118.00	\$460.00	\$150.00
4.8 Kbps Month to Month	118.00	460.00	150.00
9.6 Kbps Month to Month	118.00	460.00	150.00
19.2 Kbps Month to Month	118.00	460.00	150.00
38.4 Kbps Month to Month	118.00	460.00	150.00
56 Kbps Month to Month	118.00	460.00	150.00
12 - 23 Months	110.00	0.00	0.00
24 - 35 Months	105.00	0.00	0.00
36 - 59 Months	86.40	0.00	0.00
60 - 84 Months	75.60	0.00	0.00
64 Kbps Month to Month	128.00	460.00	150.00
12 - 23 Months	122.00	0.00	0.00
24 - 35 Months	116.00	0.00	0.00
36 - 59 Months	102.00	0.00	0.00
60 - 84 Months	90.00	0.00	0.00
2. Circuit Repeater - Data Amplification (56.0, 64.0 Kbps) - Per Repeater			
	85.00	100.00	N/A

(T)

(T)

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EXHIBIT A

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Section 5
Second Revised Sheet 6
Cancels
First Revised Sheet 6

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

VI. DIGILINK (Continued)			(T)
A. Rates and Charges (Continued)			(T)
	<u>Monthly Rate</u>	<u>NRC</u>	
3. Interoffice Channel, Fixed (Continued)			(T)
- Per Circuit			
2.4 Kbps			
Month to Month	\$ 85.40	\$ 0.00	
4.8 Kbps			
Month to Month	85.40	0.00	
9.6 Kbps			
Month to Month	85.40	0.00	
19.2 Kbps			
Month to Month	85.40	0.00	
38.4 Kbps			
Month to Month	85.40	0.00	
56 Kbps			
Month to Month	125.00	0.00	
12 - 23 Months	120.00	0.00	
24 - 35 Months	110.00	0.00	
36 - 59 Months	100.00	0.00	
60 - 84 Months	90.00	0.00	
64 Kbps			
Month to Month	150.00	0.00	
12 - 23 Months	143.00	0.00	
24 - 35 Months	135.00	0.00	
36 - 59 Months	120.00	0.00	
60 - 84 Months	105.00	0.00	

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EXHIBIT A

United Telephone
Company of Ohio
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Section 5
Second Revised Sheet 7
Cancels
First Revised Sheet 7

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

VI. DIGILINK (Continued) (T)

A. Rates and Charges (Continued) (T)

	<u>Monthly Rate</u>	<u>NRC</u>	(T)
4. Interoffice Channel, Per Mile - Per Mile			(T)
2.4 Kbps Month to Month	\$ 2.70	\$ 0.00	
4.8 Kbps Month to Month	2.70	0.00	
9.6 Kbps Month to Month	2.70	0.00	
19.2 Kbps Month to Month	2.70	0.00	
38.4 Kbps Month to Month	2.70	0.00	
56 Kbps Month to Month	2.70	0.00	
12 - 23 Months	2.60	0.00	
24 - 35 Months	2.50	0.00	
36 - 59 Months	2.20	0.00	
60 - 84 Months	1.70	0.00	
64 Kbps Month to Month	2.70	0.00	
12 - 23 Months	2.60	0.00	
24 - 35 Months	2.50	0.00	
36 - 59 Months	2.20	0.00	
60 - 84 Months	1.70	0.00	

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EXHIBIT A

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Section 5
Second Revised Sheet 8
Cancels
First Revised Sheet 8

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

VI. DIGILINK (Continued)

(T)

A. Rates and Charges (Continued)

(T)

	<u>Monthly Rate</u>	<u>NRC</u>	
5. Bridging - Per Port			(T)
2.4 Kbps Month to Month	\$ 12.00	\$ 100.00	
4.8 Kbps Month to Month	12.00	100.00	
9.6 Kbps Month to Month	12.00	100.00	
19.2 Kbps Month to Month	12.00	100.00	
38.4 Kbps Month to Month	12.00	100.00	
56 Kbps Month to Month	12.00	100.00	
64 Kbps Month to Month	12.00	100.00	
6. Nonrecurring charge			(T)
The First Nonrecurring Charge is applicable for the first Local Channel Termination to a given Central Office. The Additional Nonrecurring Charge is applicable for each subsequent Local Channel Termination added to the same route for a given Central Office.			
7. Move Charges			(T)
A Move Charge applies for Local Channel Termination moved to a new location, even when moving on the same premises. The Move Charge is equal to the Local Channel Termination First Nonrecurring Charge and applies in addition to any applicable Service Connection Charges located in Section 4 of the United Telephone Company's General Exchange Tariff.			

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EXHIBIT A

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Section 5
Second Revised Sheet 9
Cancels
First Revised Sheet 9

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

VII. LIGHTLINK (Continued)

(T)

A. Rates and Charges

(T)

	<u>Monthly Rate</u>	<u>NRC Installation</u>	<u>NRC Rearrangement</u>
1. Local Channel Termination - Per Point of Termination			
44.736 Mbps			
Month to Month			
Within CO	\$ 1,200.00	\$ 500.00	\$ 250.00
0-3 miles	1,895.00	500.00	250.00
Over 3 miles	2,820.00	500.00	250.00
1 Year			
Within CO	1,200.00	0.00	0.00
0-3 miles	1,895.00	0.00	0.00
Over 3 miles	2,820.00	0.00	0.00
2 Years			
Within CO	1,200.00	0.00	0.00
0-3 miles	1,895.00	0.00	0.00
Over 3 miles	2,820.00	0.00	0.00
3 Years			
Within CO	1,139.25	0.00	0.00
0-3 miles	1,783.95	0.00	0.00
Over 3 miles	2,654.60	0.00	0.00
5 Years			
Within CO	996.80	0.00	0.00
0-3 miles	1,561.35	0.00	0.00
Over 3 miles	2,320.50	0.00	0.00

(T)

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 5
Second Revised Sheet 10
Cancels
First Revised Sheet 10

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

VII. LIGHTLINK (Continued)

(T)

A. Rate and Charges (Continued)

(T)

	<u>Monthly Rate</u>	<u>NCR</u>	
2. Interoffice Channel, Fixed - Channel Mileage Termination - Per Circuit			(T)
44.736 Mbps			
Month to Month	\$625.00	\$ 0.00	
12 - 23 Months	625.00	0.00	
24 - 35 Months	625.00	0.00	
36 - 59 Months	588.90	0.00	
60 - 84 Months	514.80	0.00	
3. Interoffice Channel, Per Mile - Channel Mileage Termination - Per Mile			(T)
44.736 Mbps			
Month to Month	150.00	0.00	
12 - 23 Months	150.00	0.00	
24 - 35 Months	150.00	0.00	
36 - 59 Months	140.00	0.00	
60 - 84 Months	122.40	0.00	

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 5
Second Revised Sheet 11
Cancels
First Revised Sheet 11

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

INTERLATA INTEREXCHANGE PRIVATE LINE SERVICE

VII. LIGHTLINK (Continued)			(T)
A. Rates and Charges (Continued)			(T)
	<u>Monthly Rate</u>	<u>NRC</u>	
4. Optional Features			(T)
a. Central Office Multiplexing			(T)
- Per Arrangement			
1) DS3 to DS1	\$515.00	\$ 92.00	(T)
b. Clear Channel Capability (CCC)			(T)
- Per Channel Termination	0.00	304.00	
c. Digital Cross Connect Service			(T)
1) Bridging, Per Termination			(T)
- Per Termination	5.30	10.00	
2) Subrate Multiplexing			(T)
- Per Subrate Channel	7.40	5.00	
3) Company Performed Reconfiguration			(T)
- Per 30 minute increment, per occasion	0.00	22.95	
d. Multiplexed Access Service Connection (MASC)			(T)
1) DS3 Level	8.00	75.00	(T)

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 6
Third Revised Sheet 1
Cancels
Second Revised Sheet 1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

(M)

I. DESCRIPTION

- A. Enhanced Frame Relay Service (EFRS) is a fast packet network that permits the transmission of data at speeds of 56/64 Kbps, 128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, 1.544 MBPS, or 44.210 MBPS using Permanent Virtual Circuits (PVCs). Utilizing statistical multiplexing, the EFRS network enables the customer to allocate circuit bandwidth to applications as needed, rather than assigning fixed channels to specific applications.
- B. Permanent Virtual Circuits (PVCs) are logical channels that connect ports on a frame relay switch or between frame relay switches. PVCs are end-to-end, bi-directional channels that are established and non-established via the service order process. Separate PVCs must be established to each location to which the customer desires to transmit data. PVC channels are virtual channels that are established in software tables and do not tie up facilities when not in use. With EFRS, customers may select from three different classes of PVCs to ensure greater reliability for mission-critical applications in the event of network congestion. Multiple PVCs can be defined over a single Frame Relay Access Line (FRAL), thereby providing a single access line the capability to transmit data to multiple destinations.
- C. EFRS requires the use of customer terminal equipment that functions as a multiplexer, bridge or router. This terminal equipment must be purchased separately from the EFRS and must conform to Consultative Committee for International Telecommunication Union (ITU) and American National Standards Institute (ANSI) standards set forth in ITU: Q.933 Annex A, ANSI: T1.617 Annex D. The terminal equipment accumulates customer data and transfers it into a frame relay format suitable for transmission over the EFRS network.
- D. In the operation of EFRS, Customer Premises Equipment (CPE), such as frame relay assemblers and disassemblers, encapsulate arriving data into variable length frames. The information contained in these frames is data link connection identifier (DLCI) addresses, which identifies the PVC in the network that should be used to forward the frame to its proper destination. The CPE then sends the frame into the EFRS network over a dedicated access facility called a User Network Interface (UNI). The frame relay switch reads identifying information and routes the frame to the proper destination based on pre-established PVCs.
- E. Variable frame length capability is useful in communications between asynchronous Local Area Networks (LAN) and for transport of synchronous data traffic. EFRS is capable of handling the requirements of bursty data sources because of the ability of the service to allocate additional bandwidth when not in use by other sources.
- F. EFRS is provided to the customer in the form of a FRAL, Frame Relay User Network Interface Port and the PVC.
- G. The actual throughput of aggregated PVC bandwidths in use at the same time on the same port cannot exceed the port speed.

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By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 6

Original Sheet 2

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

I. DESCRIPTION (Continued)

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- H. Since multiple PVCs may be defined on one physical port, it is possible for the cumulative Committed Information Rates (CIRs) to exceed the physical bandwidth of that port. This is referred to as oversubscription and when this occurs, there can be no guarantee that the CIR defined for that port and PVC will be available at any point in time.
- I. The CIR and the Excess Burst Size (B_e) are traffic management parameters that allow the customer to fine tune implementation of EFRS in conjunction with the classes of PVCs offered.
- J. 64 Kbps Clear Channel Capability (CCC) will be provided upon request and where deemed applicable by the Telephone Company. Charges applicable to Special Types of Construction or Facilities may apply.

II. DEFINITIONS

- A. 64 Kbps Clear Channel Capability (CCC) - A channel connection that provides an end-to-end digital connection between the customer's premises and the customer's Serving Central Office in which all 64 Kbps of bandwidth are available for the customer's use.
- B. Committed Information Rate (CIR) - Defines the amount of data throughput on any designated PVC that the Telephone Company will support under normal operating conditions. CIR is administered per PVC. Any data burst beyond the CIR may be labeled Discard Eligible (DE) if the data transfer rate exceeds the CIR of the PVC being used. If the EFRS network develops congestion, the frames marked DE may be discarded. Upon service subscription, the customer must specify the PVC class and CIR for each PVC. The retransmission of discarded frames is administered by the customer's CPE.
- C. Customer Designated Location (CDL) - The geographic location designated by the customer where the customer's CPE is first considered to enter the Telephone Company's network.
- D. Data Link Connection Identifier (DLCI) - The address information contained in the frame relay header that conveys to the network how an individual frame should be routed. The DLCI essentially defines the customer end point to which a particular frame should be sent.
- E. Excess Burst Size (B_e) - Denotes the data above CIR at which customer data will be admitted to the EFRS network. All Excess Burst data admitted to the network that exceeds the CIR will be designated discard eligible.
- F. Frame - A sequence of contiguous bits delimited by beginning and ending flag sequences.
- G. Frame Relay Access Line (FRAL) - A UNI that provides access to the EFRS network. A FRAL includes the provision of a frame relay access port and the physical facility from the customer designated location to the Telephone Company Central Office.

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 6

Original Sheet 3

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

II. DEFINITIONS (Continued)

- H. Frame Relay Access Port (FRAP) – A port on the EFRS network that is used to interconnect other Telephone Company provided private line services such as **DigiLink**, **TransLink** or a digital cross connect system port to the EFRS network. The FRAP is the physical entry point for PVCs. Ports include the electronic equipment used in connecting these service elements to the EFRS network and enable customers to allocate bandwidth to applications as needed. (T)
(T)
- I. Enhanced Frame Relay Service (EFRS) – A fast packet network that provides the customer high-speed access and throughput to different customer addresses. Utilizing statistical multiplexing, the EFRS network enables the customer to allocate bandwidth to applications as needed, rather than dedicating fixed channels to specific applications. Customers may select from three different classes of PVCs to ensure greater reliability for mission-critical applications in the event of network congestion.
- J. Enhanced Frame Relay Service Network Serving Area – Area encompassing certain serving area points. Serving area points are those Telephone Company central offices designated for the EFRS Network Serving Area.
- K. Gateway Service – Allows the Telephone Company EFRS customers to interconnect to other frame relay networks. The service is available wherever the Telephone Company has established a network interface with another private or public frame relay network. Gateway Service is only available where such network connectivity exists or where suitable connectivity arrangements can be made that are acceptable to the Telephone Company.
- L. Local Access and Transport Area (LATA) - Denotes a geographic area established for the provision and administration of communications service. It encompasses one or more designated exchanges that are grouped to serve common social, economic, and other purposes.
- M. Local Area Network (LAN) – A network permitting the interconnection and intercommunication of a group of computers, primarily for the sharing of resources such as data storage devices and printers.
- N. Logical Channel – A communications channel that allows two-way, simultaneous transmission of sequenced data packets through the network. No circuit capacity is preassigned to a logical channel. Capacity is made available as the data is transmitted. Each PVC is considered one logical channel or one virtual channel.
- O. Maximum Burst Rate (MBR) - Denotes the maximum information rate at which customer traffic will be admitted to the EFRS network. Traffic rates in excess of MBR will be automatically discarded on ingress to the network. MBR is equal to the sum of the Committed Information Rate (CIR) and Excess Burst Size (B_e).

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P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

II. DEFINITIONS (Continued)

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- P. Network to Network Interface (NNI) – Specifies how a frame relay switch sends and receives data from a frame relay interexchange carrier's or other customer's network.
- Q. Permanent Virtual Circuit (PVC) - Provides a software-defined electronic path between the two ports within the EFRS network. A UNI or NNI port connection can be associated with multiple PVCs. Since all PVCs need not be in use at the same time, it is possible for the total CIR of all PVCs associated with one port to exceed the bandwidth of the port. It is not possible, however for the simultaneous aggregation of the PVCs throughput to exceed the bandwidth of the port. Such a relationship is referred to as oversubscription or overbooking. When oversubscription occurs, there is no guarantee that the bandwidth defined for that PVC will be available at any point in time. PVCs classified as Frame for Voice receive the highest priority routing with PVCs classified as Frame for SNA next in priority. Frame for LAN PVCs receive standard frame relay switching priority.
- R. Private Network Link (PNL) - The facilities, normally DS1 service used from a customer's frame relay switch location to the Telephone Company's Enhanced Frame Relay Service Network.
- S. Protocol - A specific set of rules, procedures or conventions relating to format and timing of data transmission between two devices. It is a standard procedure that two data devices must accept and use in order to understand each other. Protocols break a file into parts called blocks or packets. When packets are sent, the receiving computer checks the arriving packets and sends an acknowledgment back to the sending computer.
- T. Servicing Area Points - Geographical locations designated by the Telephone Company where EFRS network ports are located and where the EFRS network is accessed.
- U. Serving Central Office (SCO) - The Telephone Company central office from which the customer normally receives dial tone.
- V. Systems Network Architecture (SNA) - IBM's data communications scheme.
- W. Statistical Multiplexing – A multiplexing technique in which timeslots are dynamically allocated on the basis of need rather than being predetermined. The data is typically transmitted on a first come, first served basis.
- X. User to Network Interface (UNI) – A standard interface used to connect the end-user to the Telephone Company EFRS network. The UNI receives the data frame from the customer's LAN or other CPE devices and verifies that the DLCI is valid before relaying the frame to the destination point.
- Y. Utilization Reports - Reports that the customer can order that display circuit utilization for Frame Relay Access Ports (FRAP) and Permanent Virtual Circuits (PVC).

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 6

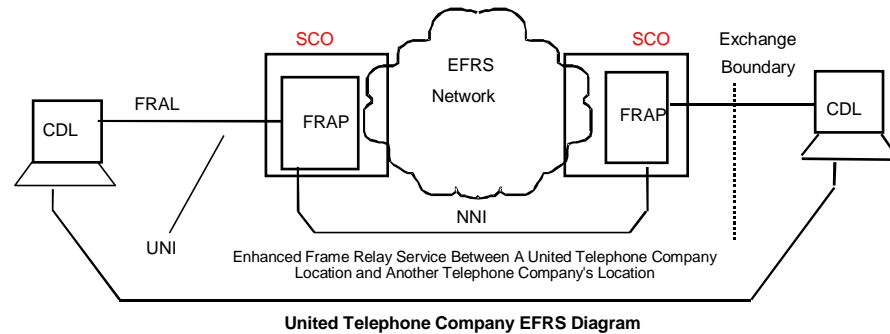
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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

II. DEFINITIONS (Continued)

The following diagram illustrates some of the above mentioned terms.



CDL = Customer Designated Location
EFRS = Enhanced Frame Relay Service
FRAL = Frame Relay Access Line
FRAP = Frame Relay Access Port
SCO = Serving Central Office
UNI = User to Network Interface

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Company of Ohio
d/b/a Embarq

Section 6

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

III. GENERAL REGULATIONS

(M)

- A. EFRS is available at Telephone Company Servicing Area Point locations. EFRS is offered for local, intraLATA, and intrastate interLATA use where Telephone Company facilities exist. The regulations and rates specified herein are in addition to the applicable regulations and rates specified in other tariffs and other sections of this tariff.
- B. EFRS is provided subject to the availability of facilities.
- C. EFRS is provided to the customer in the form of an FRAL or a combination of digital, private line transport facilities (i.e., DigiLink or TransLink) and a FRAP, and a PVC at a specified CIR. The FRAL, or a combination of DigiLink and TransLink and a FRAP, form the customer access components to the EFRS network.
- D. 44.210 MBPS EFRS is not offered bundled with the FRAL. 44.210 MBPS EFRS is available on a FRAP only basis and the 44.210 MBPS access line is obtained on an Individual Case Basis (ICB). The FRAP Only offerings are provided for digital special access line connections to the network supporting EFRS. Digital special access facilities are available from the Telephone Company's Private Line Service Tariff, Intrastate Access Service, or the Embarq Local Operating Companies F.C.C. No. 1 tariffs.
- E. The minimum service period for EFRS is three months. EFRS may be ordered on a month to month basis or through a Term Discount Plan for fixed periods of 12 to 84 months.
- F. Temporary Suspension of Service at the customer's request, as defined in Section 20 of United Telephone Company's General Exchange Tariff, is not allowed for Frame Relay Service.
- G. The customer is responsible for payment of a Maintenance of Service Charge, as defined in Section 11 of United Telephone Company's General Exchange Tariff, for visits by the Telephone Company to the customer premises when a service difficulty resulting in a trouble report is caused by the use of equipment or facilities provided by the customer.
- H. When the customer orders additional PVCs, nonrecurring charges apply. In addition, nonrecurring charges will apply to all changes made to a customer's EFRS configuration at the customer's request, such as changes to add, delete, or rearrange the customer's configuration, and changes to PVC classes and CIRs. One PVC nonrecurring charge applies for each PVC changed.
- I. A customer subscribing to a FRAL or FRAP and a PVC will be referred to as the Controller of the FRAL or FRAP. A customer may request data transmission capability to a different customer's location. Both customers must subscribe to frame relay service. The customer requesting PVC connectivity to another customer's location as such must have written permission from the Controller of the FRAL or FRAP for this data transmission capability.

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P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

III. GENERAL REGULATIONS (Continued)

(M)

I. A customer subscribing to... (Continued)

The FRAL or FRAP and PVC may be ordered and billed independently and can have different customers as Controllers. A request by one customer to discontinue a PVC does not result in the disconnection of the FRAL and/or FRAP. Only the Controller of a FRAL or FRAP may authorize the disconnection of that FRAL or FRAP.

J. Whenever facilities are provided jointly by the Telephone Company and one or more other telephone companies, the regulations, rates and charges of such other telephone companies apply for the equipment and facilities furnished by them for use in connection with the interexchange EFRS provided by the Telephone Company.

K. Where it is necessary to use interexchange or local channel facilities of another telephone company in order to furnish a private line service to interconnect to the Telephone Company's EFRS, such service will be furnished only if satisfactory arrangements can be made with the other company.

L. Due to technical limitations, the distance between the SWC and the customer designated location (CDL) is limited to approximately 12,000 feet for 1.544 mbps access or 18,000 feet for 56 kbps access. A Telephone Company engineer may allow some deviation of this specification based on the gauge of wire used. For access lines that exceed this specification, the access line may be made operational by adding additional equipment. The Telephone Company will apply charges applicable to Special Types of Construction or Facilities, as defined in Section 5 of United Telephone Company's General Exchange Tariff, for the additional time and material required.

M. Charges applicable to Special Types of Construction or Facilities, as defined in Section 5 of United Telephone Company's General Exchange Tariff, may apply when technical limitations and/or the lack of facilities exist, or if it is necessary to construct facilities to satisfy service requests.

IV. OBLIGATIONS OF THE TELEPHONE COMPANY

A. The responsibility of the Telephone Company is limited to furnishing network equipment suitable for EFRS and to the maintenance and operation of such equipment in a manner proper for such service. Subject to this responsibility, the Telephone Company is not responsible for the through transmission of signals generated by the customer provided equipment or system, or for the quality of, or defects in, such transmission or the reception of signals by such equipment or systems.

B. The Telephone Company is not responsible for installation, operation or maintenance of any terminal equipment, data unit or communications system provided by a customer or user. The Telephone Company is not responsible for adapting EFRS to the technological requirements of any specific customer equipment.

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P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

IV. OBLIGATIONS OF THE TELEPHONE COMPANY (Continued)

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C. The Telephone Company is not responsible to the customer or user if changes in any of the equipment, operations or procedures of the Telephone Company used in the provision of EFRS render any facilities provided by the customer or user obsolete or require modification or alteration of such equipment or system or otherwise affect its use or performance, provided the Telephone Company has met any applicable information disclosure requirements otherwise required by law.

D. In order to maintain the quality of EFRS, the Telephone Company reserves the right to perform preventative maintenance and software updates to the network. The Telephone Company has classified this maintenance as follows:

1. Scheduled Maintenance

Scheduled maintenance is used to perform such functions as hardware and software upgrades and network optimization. The Telephone Company will perform these tasks in a maintenance window that is defined as occurring between midnight and 6 a.m., local time, seven days per week. The Telephone Company will provide advance notice of all scheduled maintenance.

2. Demand Maintenance

Demand maintenance may occur as a result of unexpected events and is performed when EFRS network elements are in jeopardy. The Telephone Company will perform this type of maintenance at its discretion. Due to the nature of demand maintenance prior notification may not be possible; however, the customer will be informed when the maintenance has been completed.

V. OBLIGATIONS OF THE CUSTOMER

A. The customer's frame relay compatible terminal equipment is responsible for re-transmitting frames that are discarded due to errors or network congestion.

B. Where EFRS is available for use in connection with communications systems or equipment provided by a customer or user, the operating characteristics of such systems or equipment shall be such as not to interfere with any services offered by the Telephone Company. Such use is subject to the further provisions that the equipment provided by the customer or user does not endanger the safety of Telephone Company employees or the public; does not damage, harm, require change in or alteration of the equipment or other services of the Telephone Company; does not interfere with the proper operation of the Telephone Company's equipment or does not otherwise injure the public in its use of Telephone Company services. Upon notice from the Telephone Company that the equipment provided by the customer or user is causing, or is likely to cause, such hazard or interference, the customer shall take the necessary steps to remove or prevent such hazard or interference.

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

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ENHANCED FRAME RELAY SERVICE

V. OBLIGATIONS OF THE CUSTOMER (Continued)

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- C. The customer, upon request, shall furnish such CPE information as may be required to permit the Telephone Company to design and maintain the EFRS it offers and to assure that the service arrangement is in compliance with the regulations contained herein.
- D. Upon service subscription, the customer must specify the CIR class and B_e of each PVC ordered. CIR is the maximum information rate at which the customer's traffic will be admitted to the EFRS network without being designated eligible for discard. A default of fifty (50) percent of the smallest port size will be assigned as the CIR should the information not be provided. No individual PVC CIR shall exceed (95) percent of the FRAP access rate. The sum of all CIR on a single FRAP must not exceed two hundred (200) percent of the FRAP access rate.

VI. TERM DISCOUNT PLAN (TDP)

- A. Term Discount Plans (TDPs) are available for FRALs, FRAPs and PNLs. TDPs provide the customer with discounted rates for the services listed. The customer agrees to a minimum service commitment period for EFRS when the TDP is established. Customers may disconnect or move PVCs and not be subject to termination liability charges. The customer must order a TDP in writing to the Telephone Company. A TDP may be ordered in one month increments, based on the following plan options:

Plan A:	12 - 23 months
Plan B:	24 - 35 months
Plan C:	36 - 59 months
Plan D:	60 - 84 months

- B. The customer must specify the length of the initial service period at the time the service is ordered. When a customer converts to a TDP, no administrative charges are applied toward facilities in-service at that time. If a customer moves from a month to month plan to a TDP, or upgrades from one TDP to another, no administrative charges are applied.

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EXHIBIT A

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Company of Ohio
d/b/a Embarq

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VI. TERM DISCOUNT PLAN (TDP) (Continued)

- C. If a customer under a Term Discount Plan (TDP) disconnects all or a portion of the EFRS TDP service prior to the expiration of the TDP, then a Termination Liability Charge will apply to those services that are disconnected. The Termination Liability Charge will be a one-time charge equal to the sum of 50% of the payments remaining for the rest of the TDP. If charges applicable to Special Types of Construction or Facilities were applied to the service being terminated, any termination charges associated with the Special Types of Construction or Facilities will also apply.*
- D. Rate increases or decreases as approved by the Ohio P.U.C. will automatically be applied to the monthly term plan rates for the remaining term of the TDP. If a Company initiated rate to any rate elements or combination of rate elements causes the charges for the entire EFRS under the TDP to increase by 10% or more annually, then; the customer may cancel the TDP without incurring termination liability charges provided the customer notifies the Company with 30 days after the effective date of the rate increase.*
- E. TDP commitment periods can be extended by the customer at any time during the term of the plan, up to a maximum of 84 months. The number of months accrued in the current plan will apply toward the new plan selected.
- F. At the end of the TDP service commitment period, the customer may subscribe to a new TDP at the prevailing rates set forth in Section VIII. following. If the customer does not select a new TDP, the rates will convert to the prevailing month to month rates.

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* Customers under contract prior to April 14, 2003, are grandfathered pursuant to the terms and conditions outlined in the contract.

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Cancels
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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VI. TERM DISCOUNT PLAN (TDP) (Continued)

- G. Termination Liability Charges will not apply when a service or rate element under a Term Discount Plan (TDP) arrangement is disconnected prior to the expiration of a selected service period as a result of a upgrade in tariff jurisdiction and/or a customer requested change to a next generation service offering under the following conditions:

The service period of the new Term Discount Plan for the new service offering is a period equal to or exceeding the remaining service period of the disconnected arrangement, and

The service orders to install the new service and disconnect the old service are related together, and there is no lapse in service between the installation of the new service and the disconnection of the existing service, and

The service orders to install the new service and disconnect the old service are for the same customer at the same location.

- H. The Company will determine whether the replacement service qualifies as a next generation service offering.
- I. Nonrecurring Charges and Service Connection Charges for the new service will apply according to the requirements of the new service.
- J. Commission approval of the above termination liability language is not intended to indicate that the Commission has approved or sanctioned any terms or provision contained therein. Signatories to such contracts shall be free to pursue whatever legal remedies they may have should a dispute arise.
- K. Service Charges are waived for one, two, three and five year term commitments when the customer also subscribes to the Telephone Company's non-regulated **Dedicated** IP Service. (C)

VII. SERVICE COMPONENTS

- A. Administrative Charge – Applies to changes in a customer's network configuration such as additions or changes of PVCs. Although multiple changes can be caused by such actions, only one administrative charge applies.

This administrative charge applies in addition to the applicable charges associated with Service Connections, Changes and Moves, as specified in Section 4 of United Telephone Company's General Exchange Tariff.

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P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VII. SERVICE COMPONENTS (Continued)

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- B. CIR and PVC - A monthly rate applies for each PVC based on the CIR requested by the customer. If no CIR is indicated, the CIR will be set at the default of 50% of the associated FRAP. A nonrecurring charge applies for the establishment of each PVC and for each subsequent order of PVC(s). A separate rate is established for PVCs that are intraLATA and for PVCs that are interLATA.

Customers may select from three different classes of PVCs to ensure greater reliability for mission-critical applications in the event of network congestion:

<u>Service Class</u>	<u>Type</u>	<u>PVC Priority</u>
Frame for LAN	Standard	Normal
Frame for SNA	Premium	Higher
Frame for Voice	Premium	Highest

This flexibility helps to ensure maximum performance and satisfaction for individual customer data applications.

- C. Frame Relay Access Line (FRAL) - A nonrecurring charge and monthly rate applies based on the speed of the port connection for each physical connection. The FRAL includes the provision of a port.
- D. Frame Relay Access Port (FRAP) - A nonrecurring charge and monthly rate based on the speed of the port connection applies per port connection to the network supporting EFRS. The port rate element can be used in lieu of the FRAL element if the customer has an alternative Telephone Company-approved means of access to the EFRS network (such as DigiLink and/or TransLink).
- E. Frame to Asynchronous Transfer Mode (ATM) Inter-Networking Links - The Telephone Company may establish facilities between EFRS switching equipment and ATM Service switching equipment and may allow customers to share bandwidth on these facilities. Where these shared facilities are available to customers; the Frame to ATM Inter-Networking Link option exists. In addition to the EFRS Customer Connection, the customer may subscribe to a Frame to ATM Inter-Networking Link. Links that extend between EFRS and ATM switches must have an associated CIR. At least one PVC is required between both customer premises through the Frame to ATM Inter-Networking Link. All CIRs on this PVC must have the same value. Frame to ATM Inter-Networking Links are only available where such facilities exist.

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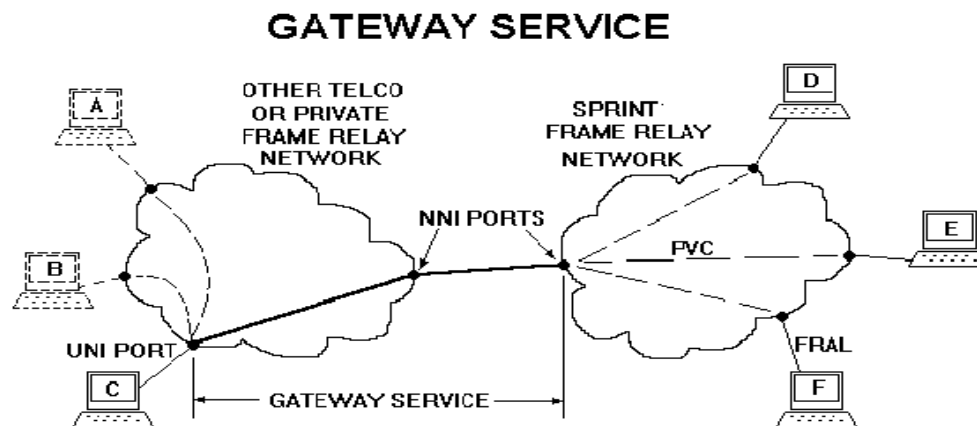
P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VII. SERVICE COMPONENTS (Continued)

(M)

- F. Gateway Service - This service allows the Telephone Company EFRS customers to interconnect to another frame relay network. The service is available wherever the Telephone Company has established a network interface with another private or public frame relay network. The charge for this service covers the FRAP and interconnecting facilities from the Telephone Company to the interconnection point with the other provider. The charge includes the software defined PVC to the other company's network to the UNI port, but does not include the UNI port provided by the other company. The Gateway charge is purchased in increments of CIR. The following diagram shows a typical customer network with three data devices interconnected to the Telephone Company EFRS (sites D, E & F). The customer needs to interconnect the data devices to a fourth site (C) served by another company. The customer accomplishes this by ordering three PVCs and three Gateway service connections to the other company's frame relay network. This example assumes that frame relay access from site C is already established as illustrated.



- G. Private Network Link (PNL) - A charge for a DS1 facility from a customer's frame relay switch location to the Telephone Company's EFRS Network. In addition to the access facility, a 1.544 FRAP must be purchased.
- H. Utilization Reports - Reports that the customer can order that display certain circuit utilization statistics for Permanent Virtual Circuits (PVC) and Frame Relay Access Ports (FRAP). The PVC report summarizes inbound and outbound packet discards and displays utilization as a percentage of CIR. The FRAP report summarizes inbound and outbound on a per port basis. Service is not available to NNI locations. A monthly plan and Term Discount Plans are available for fixed periods of 12 to 60 months. Reports are available only where Company facilities permit.

(M)

(M) Material appearing on this sheet previously appeared on Second Revised Sheet 31.

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 6

Original Sheet 14

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VIII. RATES AND CHARGES

A. Frame Relay Access Line (FRAL) (includes Access Line and Port)

(M)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
56 Kbps			
Month to month	FCEALTA	\$130.00	\$295.00
12-23 months	FCEALTA(F1Y)	125.00	195.00
24-35 months	FCEALTA(F2Y)	120.00	95.00
36-59 months	FCEALTA(F3Y)	110.00	N/A
60-84 months	FCEALTA(F5Y)	100.00	N/A
64 Kbps*			
Month to month	FCEALTC	135.00	295.00
12-23 months	FCEALTC(F1Y)	130.00	195.00
24-35 months	FCEALTC(F2Y)	125.00	95.00
36-59 months	FCEALTC(F3Y)	115.00	N/A
60-84 months	FCEALTC(F5Y)	105.00	N/A
128 Kbps			
Month to month	FCEALTD	225.00	495.00
12-23 months	FCEALTD(F1Y)	215.00	395.00
24-35 months	FCEALTD(F2Y)	205.00	295.00
36-59 months	FCEALTD(F3Y)	190.00	N/A
60-84 months	FCEALTD(F5Y)	175.00	N/A
256 Kbps			
Month to month	FCEALTE	300.00	495.00
12-23 months	FCEALTE(F1Y)	290.00	395.00
24-35 months	FCEALTE(F2Y)	280.00	295.00
36-59 months	FCEALTE(F3Y)	260.00	N/A
60-84 months	FCEALTE(F5Y)	240.00	N/A
384 Kbps			
Month to month	FCEALTF	395.00	495.00
12-23 months	FCEALTF(F1Y)	385.00	395.00
24-35 months	FCEALTF(F2Y)	375.00	295.00
36-59 months	FCEALTF(F3Y)	365.00	N/A
60-84 months	FCEALTF(F5Y)	355.00	N/A
512 Kbps			
Month to month	FCEALTG	435.00	495.00
12-23 months	FCEALTG(F1Y)	425.00	395.00
24-35 months	FCEALTG(F2Y)	415.00	295.00
36-59 months	FCEALTG(F3Y)	405.00	N/A
60-84 months	FCEALTG(F5Y)	395.00	N/A
1.544 Mbps			
Month to month	FCEALTB	545.00	495.00
12-23 months	FCEALTB(F1Y)	535.00	395.00
24-35 months	FCEALTB(F2Y)	520.00	295.00
36-59 months	FCEALTB(F3Y)	505.00	N/A
60-84 months	FCEALTB(F5Y)	490.00	N/A

* 64 Kbps Clear Channel Capability is provided upon request where facilities are available

(M)

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United Telephone
Company of Ohio
d/b/a Embarq

Section 6

Original Sheet 14.1

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VIII. RATES AND CHARGES (Continued)

A. Frame Relay Access Line (FRAL) (includes Access Line and Port) (Continued)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
*3 Mbps (2xDS1)			
Month to month	FCEALTM	\$ 800.00	\$495.00
12-23 months	FCEALTM(F1Y)	650.00	395.00
24-35 months	FCEALTM(F2Y)	550.00	295.00
36-59 months	FCEALTM(F3Y)	475.00	N/A
60-84 months	FCEALTM(F5Y)	425.00	N/A
*6 Mbps (4xDS1)			
Month to month	FCEALTN	1,350.00	495.00
12-23 months	FCEALTN(F1Y)	1,200.00	395.00
24-35 months	FCEALTN(F2Y)	1,000.00	295.00
36-59 months	FCEALTN(F3Y)	900.00	N/A
60-84 months	FCEALTN(F5Y)	800.00	N/A
*10.5 Mbps (7xDS1)			
Month to month	FCEALTY	1,600.00	495.00
12-23 months	FCEALTY(F1Y)	1,450.00	395.00
24-35 months	FCEALTY(F2Y)	1,350.00	295.00
36-59 months	FCEALTY(F3Y)	1,275.00	N/A
60-84 months	FCEALTY(F5Y)	1,225.00	N/A
*12 Mbps (8xDS1)			
Month to month	FCEALTZ	1,775.00	495.00
12-23 months	FCEALTZ(F1Y)	1,625.00	395.00
24-35 months	FCEALTZ(F2Y)	1,525.00	295.00
36-59 months	FCEALTZ(F3Y)	1,450.00	N/A
60-84 months	FCEALTZ(F5Y)	1,400.00	N/A

* Where facilities are available. CPE must be compliant with Frame Relay Forum.16 (FRF.16), Multilink Frame Relay Protocol Industry Standard.

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United Telephone
Company of Ohio
d/b/a Embarq

Section 6

Original Sheet 15

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VI. RATES AND CHARGES (Continued)

B. Frame Relay Port (FRAP) Only

(M)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
56 Kbps			
Month to month	FCEALA0	\$ 75.00	\$195.00
12-23 months	FCEALA0(F1Y)	70.00	145.00
24-35 months	FCEALA0(F2Y)	65.00	95.00
36-59 months	FCEALA0(F3Y)	60.00	N/A
60-84 months	FCEALA0(F5Y)	55.00	N/A
64 Kbps*			
Month to month	FCEALC0	80.00	195.00
12-23 months	FCEALC0(F1Y)	75.00	145.00
24-35 months	FCEALC0(F2Y)	70.00	95.00
36-59 months	FCEALC0(F3Y)	65.00	N/A
60-84 months	FCEALC0(F5Y)	60.00	N/A
128 Kbps			
Month to month	FCEALD0	140.00	195.00
12-23 months	FCEALD0(F1Y)	130.00	145.00
24-35 months	FCEALD0(F2Y)	125.00	95.00
36-59 months	FCEALD0(F3Y)	120.00	N/A
60-84 months	FCEALD0(F5Y)	110.00	N/A
256 Kbps			
Month to month	FCEALE0	175.00	195.00
12-23 months	FCEALE0(F1Y)	165.00	145.00
24-35 months	FCEALE0(F2Y)	160.00	95.00
36-59 months	FCEALE0(F3Y)	155.00	N/A
60-84 months	FCEALE0(F5Y)	145.00	N/A
384 Kbps			
Month to month	FCEALF0	215.00	195.00
12-23 months	FCEALF0(F1Y)	205.00	145.00
24-35 months	FCEALF0(F2Y)	200.00	95.00
36-59 months	FCEALF0(F3Y)	195.00	N/A
60-84 months	FCEALF0(F5Y)	185.00	N/A
512 Kbps			
Month to month	FCEALG0	245.00	195.00
12-23 months	FCEALG0(F1Y)	235.00	145.00
24-35 months	FCEALG0(F2Y)	230.00	95.00
36-59 months	FCEALG0(F3Y)	225.00	N/A
60-84 months	FCEALG0(F5Y)	215.00	N/A

(M)

* 64 Kbps Clear Channel Capability is provided upon request where facilities are available

(M) Material now appearing on this sheet previously appeared on Second Revised Sheet 33.

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 6
First Revised Sheet 16
Cancels
Original Sheet 16

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VI. RATES AND CHARGES (Continued)

B. Frame Relay Port (FRAP) Only (Continued)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1.544 Mbps			
Month to month	FCEALB0	\$ 385.00	\$ 195.00
12-23 months	FCEALB0(F1Y)	375.00	145.00
24-35 months	FCEALB0(F2Y)	370.00	95.00
36-59 months	FCEALB0(F3Y)	365.00	N/A
60-84 months	FCEALB0(F5Y)	355.00	N/A
44.210 Mbps			
Month to month	FCEALH0	1,495.00	495.00
12-23 months	FCEALH0(F1Y)	1,445.00	395.00
24-35 months	FCEALH0(F2Y)	1,395.00	295.00
36-59 months	FCEALH0(F3Y)	1,345.00	195.00
60-84 months	FCEALH0(F5Y)	1,295.00	95.00

C. Permanent Virtual Circuit (PVC) – IntraLATA

<u>CIR, per PVC</u>	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge ⁽¹⁾</u>	(C)
Over 0 thru 8 Kbps				
Frame for LAN	FCEALVL(AP3)	\$ 5.00	\$25.00	
Frame for SNA	FCEALVL(AP2)	6.00	25.00	
Frame for Voice	FCEALVL(AP1)	7.00	25.00	
Over 8 thru 16 Kbps				
Frame for LAN	FCEALVL(BP3)	7.00	25.00	
Frame for SNA	FCEALVL(BP2)	8.00	25.00	
Frame for Voice	FCEALVL(BP1)	9.00	25.00	
Over 16 thru 24 Kbps				
Frame for LAN	FCEALVL(TP3)	9.00	25.00	
Frame for SNA	FCEALVL(TP2)	10.00	25.00	
Frame for Voice	FCEALVL(TP1)	12.00	25.00	
Over 24 thru 32 Kbps				
Frame for LAN	FCEALVL(DP3)	12.00	25.00	
Frame for SNA	FCEALVL(DP2)	14.00	25.00	
Frame for Voice	FCEALVL(DP1)	16.00	25.00	
Over 32 thru 40 Kbps				
Frame for LAN	FCEALVL(EP3)	15.00	25.00	
Frame for SNA	FCEALVL(EP2)	17.00	25.00	
Frame for Voice	FCEALVL(EP1)	20.00	25.00	

⁽¹⁾ When the customer also subscribes to the Company's non-regulated Dedicated IP Service, the PVC Nonrecurring Charge will not apply.

(N)
(N)

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d/b/a Embarq

Section 6
First Revised Sheet 17
Cancels
Original Sheet 17

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VI. RATES AND CHARGES (Continued)

C. Permanent Virtual Circuit (PVC) - IntraLATA (Continued)

<u>CIR, per PVC</u>	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge ⁽¹⁾</u>	(C)
Over 40 thru 48 Kbps				
Frame for LAN	FCEALVL(FP3)	\$ 17.00	\$25.00	
Frame for SNA	FCEALVL(FP2)	19.00	25.00	
Frame for Voice	FCEALVL(FP1)	22.00	25.00	
Over 48 thru 56 Kbps				
Frame for LAN	FCEALVL(GP3)	20.00	25.00	
Frame for SNA	FCEALVL(GP2)	23.00	25.00	
Frame for Voice	FCEALVL(GP1)	27.00	25.00	
Over 56 thru 64 Kbps				
Frame for LAN	FCEALVL(HP3)	22.00	25.00	
Frame for SNA	FCEALVL(HP2)	25.00	25.00	
Frame for Voice	FCEALVL(HP1)	29.00	25.00	
Over 64 thru 128 Kbps				
Frame for LAN	FCEALVL(IP3)	25.00	25.00	
Frame for SNA	FCEALVL(IP2)	30.00	25.00	
Frame for Voice	FCEALVL(IP1)	35.00	25.00	
Over 128 thru 256 Kbps				
Frame for LAN	FCEALVL(JP3)	45.00	25.00	
Frame for SNA	FCEALVL(JP2)	55.00	25.00	
Frame for Voice	FCEALVL(JP1)	65.00	25.00	
Over 256 thru 384 Kbps				
Frame for LAN	FCEALVL(KP3)	60.00	25.00	
Frame for SNA	FCEALVL(KP2)	70.00	25.00	
Frame for Voice	FCEALVL(KP1)	80.00	25.00	
Over 384 thru 512 Kbps				
Frame for LAN	FCEALVL(LP3)	75.00	25.00	
Frame for SNA	FCEALVL(LP2)	85.00	25.00	
Frame for Voice	FCEALVL(LP1)	95.00	25.00	
Over 512 thru 768 Kbps				
Frame for LAN	FCEALVL(MP3)	95.00	25.00	
Frame for SNA	FCEALVL(MP2)	105.00	25.00	
Frame for Voice	FCEALVL(MP1)	115.00	25.00	
Over 768 thru 1.536 Mbps				
Frame for LAN	FCEALVL(NP3)	125.00	25.00	
Frame for SNA	FCEALVL(NP2)	135.00	25.00	
Frame for Voice	FCEALVL(NP1)	145.00	25.00	
Over 1.536 thru 4 Mbps				
Frame for LAN	FCEALVL(OP3)	170.00	25.00	(R)
Frame for SNA	FCEALVL(OP2)	200.00	25.00	(R)
Frame for Voice	FCEALVL(OP1)	225.00	25.00	

⁽¹⁾ **When the customer also subscribes to the Company's non-regulated Dedicated IP Service, the PVC Nonrecurring Charge will not apply.**

(N)
(N)

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 6
First Revised Sheet 18
Cancels
Original Sheet 18

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VI. RATES AND CHARGES (Continued)

C. Permanent Virtual Circuit (PVC) - IntraLATA (Continued)

<u>CIR, per PVC</u>	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge ⁽¹⁾</u>	(C)
Over 4 thru 10 Mbps				
Frame for LAN	FCEALVL(PP3)	\$280.00	\$25.00	(R)
Frame for SNA	FCEALVL(PP2)	315.00	25.00	
Frame for Voice	FCEALVL(PP1)	350.00	25.00	
Over 10 thru 16 Mbps				
Frame for LAN	FCEALVL(QP3)	400.00	25.00	
Frame for SNA	FCEALVL(QP2)	440.00	25.00	
Frame for Voice	FCEALVL(QP1)	480.00	25.00	(R)
Over 16 thru 34 Mbps				
Frame for LAN	FCEALVL(RP3)	625.00	25.00	
Frame for SNA	FCEALVL(RP2)	655.00	25.00	
Frame for Voice	FCEALVL(RP1)	685.00	25.00	
Over 34 thru 44.210 Mbps				
Frame for LAN	FCEALVL(SP3)	775.00	25.00	
Frame for SNA	FCEALVL(SP2)	810.00	25.00	
Frame for Voice	FCEALVL(SP1)	845.00	25.00	

D. Permanent Virtual Circuit (PVC) – InterLATA

<u>CIR, per PVC</u>	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge ⁽¹⁾</u>	(C)
Over 0 thru 8 Kbps				
Frame for LAN	FCEALVI(AP3)	\$25.00	\$25.00	
Frame for SNA	FCEALVI(AP2)	30.00	25.00	
Frame for Voice	FCEALVI(AP1)	35.00	25.00	
Over 8 thru 16 Kbps				
Frame for LAN	FCEALVI(BP3)	30.00	25.00	
Frame for SNA	FCEALVI(BP2)	35.00	25.00	
Frame for Voice	FCEALVI(BP1)	40.00	25.00	
Over 16 thru 24 Kbps				
Frame for LAN	FCEALVI(TP3)	35.00	25.00	
Frame for SNA	FCEALVI(TP2)	40.00	25.00	
Frame for Voice	FCEALVI(TP1)	45.00	25.00	
Over 24 thru 32 Kbps				
Frame for LAN	FCEALVI(DP3)	50.00	25.00	
Frame for SNA	FCEALVI(DP2)	60.00	25.00	
Frame for Voice	FCEALVI(DP1)	70.00	25.00	
Over 32 thru 40 Kbps				
Frame for LAN	FCEALVI(EP3)	55.00	25.00	
Frame for SNA	FCEALVI(EP2)	65.00	25.00	
Frame for Voice	FCEALVI(EP1)	75.00	25.00	

⁽¹⁾ **When the customer also subscribes to the Company's non-regulated Dedicated IP Service, the PVC Nonrecurring Charge will not apply.**

(N)
(N)

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 6
First Revised Sheet 19
Cancels
Original Sheet 19

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VI. RATES AND CHARGES (Continued)

D. Permanent Virtual Circuit (PVC) - InterLATA (Continued)

<u>CIR, per PVC</u>	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge ⁽¹⁾</u>	(C)
Over 40 thru 48 Kbps				
Frame for LAN	FCEALVI(FP3)	\$ 60.00	\$25.00	
Frame for SNA	FCEALVI(FP2)	70.00	25.00	
Frame for Voice	FCEALVI(FP1)	80.00	25.00	
Over 48 thru 56 Kbps				
Frame for LAN	FCEALVI(GP3)	65.00	25.00	
Frame for SNA	FCEALVI(GP2)	75.00	25.00	
Frame for Voice	FCEALVI(GP1)	85.00	25.00	
Over 56 thru 64 Kbps				
Frame for LAN	FCEALVI(HP3)	70.00	25.00	
Frame for SNA	FCEALVI(HP2)	80.00	25.00	
Frame for Voice	FCEALVI(HP1)	90.00	25.00	
Over 64 thru 128 Kbps				
Frame for LAN	FCEALVI(IP3)	75.00	25.00	
Frame for SNA	FCEALVI(IP2)	85.00	25.00	
Frame for Voice	FCEALVI(IP1)	95.00	25.00	
Over 128 thru 256 Kbps				
Frame for LAN	FCEALVI(JP3)	90.00	25.00	
Frame for SNA	FCEALVI(JP2)	100.00	25.00	
Frame for Voice	FCEALVI(JP1)	110.00	25.00	
Over 256 thru 384 Kbps				
Frame for LAN	FCEALVI(KP3)	130.00	25.00	
Frame for SNA	FCEALVI(KP2)	145.00	25.00	
Frame for Voice	FCEALVI(KP1)	160.00	25.00	
Over 384 thru 512 Kbps				
Frame for LAN	FCEALVI(LP3)	135.00	25.00	(R)
Frame for SNA	FCEALVI(LP2)	150.00	25.00	
Frame for Voice	FCEALVI(LP1)	165.00	25.00	
Over 512 thru 768 Kbps				
Frame for LAN	FCEALVI(MP3)	145.00	25.00	
Frame for SNA	FCEALVI(MP2)	165.00	25.00	
Frame for Voice	FCEALVI(MP1)	185.00	25.00	
Over 768 thru 1.536 Mbps				
Frame for LAN	FCEALVI(NP3)	155.00	25.00	(D)
Frame for SNA	FCEALVI(NP2)	180.00	25.00	
Frame for Voice	FCEALVI(NP1)	205.00	25.00	
Over 1.536 thru 4 Mbps				
Frame for LAN	FCEALVI(OP3)	170.00	25.00	
Frame for SNA	FCEALVI(OP2)	200.00	25.00	
Frame for Voice	FCEALVI(OP1)	230.00	25.00	(R)

⁽¹⁾ When the customer also subscribes to the Telephone Company's non-regulated Mbps Dedicated IP Service, the 1.5 PVC nonrecurring charge will not apply.

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d/b/a Embarq

Section 6
Third Revised Sheet 20
Cancels
Second Revised Sheet 20

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VI. RATES AND CHARGES (Continued)

D. Permanent Virtual Circuit (PVC) - InterLATA (Continued)

<u>CIR, per PVC</u>	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge ⁽¹⁾</u>	(C)
Over 4 thru 10 Mbps				
Frame for LAN	FCEALVI(PP3)	\$ 280.00	\$25.00	(R)
Frame for SNA	FCEALVI(PP2)	315.00	25.00	
Frame for Voice	FCEALVI(PP1)	350.00	25.00	
Over 10 thru 16 Mbps				
Frame for LAN	FCEALVI(QP3)	400.00	25.00	
Frame for SNA	FCEALVI(QP2)	440.00	25.00	
Frame for Voice	FCEALVI(QP1)	480.00	25.00	
Over 16 thru 34 Mbps				
Frame for LAN	FCEALVI(RP3)	725.00	25.00	
Frame for SNA	FCEALVI(RP2)	775.00	25.00	
Frame for Voice	FCEALVI(RP1)	825.00	25.00	
Over 34 thru 44.210 Mbps				
Frame for LAN	FCEALVI(SP3)	995.00	25.00	
Frame for SNA	FCEALVI(SP2)	1,095.00	25.00	
Frame for Voice	FCEALVI(SP1)	1,195.00	25.00	(R)

E. Private Network Link (PNL)

<u>1.544 Mbps NNI</u>	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Month to month	FCECRTA	\$295.00	\$395.00
12-23 months	FCECRTA(1YR)	275.00	295.00
24-35 months	FCECRTA(2YR)	255.00	195.00
36-59 months	FCECRTA(3YR)	235.00	N/A
60-84 months	FCECRTA(5YR)	225.00	N/A

- F. An administrative charge will be applied, in addition to the applicable charges associated with Service Connections, Changes, and Moves as specified in Section 4 of the United Telephone Company's General Exchange Tariff, when a change is made to a customer's frame relay configuration (including changes to an existing group's addressing or changes in bandwidth), at the customer's request. Such changes are defined as those rearrangements necessary to add, delete or rearrange the customer's configuration and changes of CIR on a PVC. The administrative charge applies to changes in a customer's network associated with PVCs. Only one administrative charge applies per customer request.

Administrative Charge (Nonrecurring) \$50.00

- ⁽¹⁾ **When the customer also subscribes to the Company's non-regulated Dedicated IP Service, the PVC Nonrecurring Charge will not apply.**

(N)
(N)

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United Telephone Company of Ohio
By Joseph R. Stewart, Assistant Secretary
Columbus, Ohio

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 6
Second Revised Sheet 21
Cancels
First Revised Sheet 21

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ENHANCED FRAME RELAY SERVICE

VI. RATES AND CHARGES (Continued)

			Monthly Rate	Nonrecurring Charge	(M)	(M1)
G.	Frame To ATM Inter-Networking Link	<u>SAE Code</u>				
	- CIR, per PVC					
	Over 0 thru 256 Kbps	FCEALVI(FA1)	\$ 25.00	\$50.00		
	Over 256 thru 384 Kbps	FCEALVI(FA2)	35.00	50.00		
	Over 384 thru 512 Kbps	FCEALVI(FA3)	45.00	50.00		
	Over 512 thru 768 Kbps	FCEALVI(FA4)	55.00	50.00		
	Over 768 thru 1.536 Mbps	FCEALVI(FA5)	70.00	50.00		
	Over 1.536 thru 4 Mbps	FCEALVI(FA6)	95.00	50.00		
	Over 4 thru 10 Mbps	FCEALVI(FA7)	175.00	50.00		
	Over 10 thru 16 Mbps	FCEALVI(FA8)	250.00	50.00		
	Over 16 thru 34 Mbps	FCEALVI(FA9)	425.00	50.00		
	Over 34 thru 44.736 Mbps	FCEALVI(FA0)	575.00	50.00		
H.	Gateway Service					
	- CIR, per PVC					
	Over 0 thru 8 Kbps	FCEALMT(008)	25.00	50.00		
	Over 8 thru 16 Kbps	FCEALMT(016)	30.00	50.00		
	Over 16 thru 24 Kbps	FCEALMT(024)	35.00	50.00		
	Over 24 thru 32 Kbps	FCEALMT(032)	40.00	50.00		
	Over 32 thru 40 Kbps	FCEALMT(040)	45.00	50.00		
	Over 40 thru 48 Kbps	FCEALMT(048)	50.00	50.00		
	Over 48 thru 56 Kbps	FCEALMT(056)	55.00	50.00		
	Over 56 thru 64 Kbps	FCEALMT(064)	60.00	50.00		
	Over 64 thru 128 Kbps	FCEALMT(128)	85.00	50.00		
	Over 128 thru 256 Kbps	FCEALMT(256)	105.00	50.00		
	Over 256 thru 384 Kbps	FCEALMT(384)	125.00	50.00		
	Over 384 thru 512 Kbps	FCEALMT(512)	145.00	50.00		
	Over 512 thru 768 Kbps	FCEALMT(768)	185.00	50.00		
	Over 768 thru 1.536 Mbps	FCEALMT(1M)	225.00	50.00		
I.	Utilization Reports					
	- Per Port					
	Month to month	FCEALUN RMM	18.95	50.00		
	12 - 23 months	FCEALUN R12	16.95	50.00		
	24 - 35 months	FCEALUN R24	14.95	50.00		
	36 - 59 months	FCEALUN R36	12.95	50.00		
	60 - 84 months	FCEALUN R60	10.95	50.00	(M)	(M1)

(M) Material previously appearing on this page now appears on Original Sheet 2.

(M1) Material appearing on this page previously appeared on Third Revised Sheet 39.

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By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 6
Second Revised Sheet 22
Cancels
First Revised Sheet 22*

P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

This sheet is reserved for future use.

(T) (M)

(M)

* Also Cancels Second Revised Sheet 23
First Revised Sheet 24 through 28
Third Revised Sheet 29
Second Revised Sheet 29.1
First Revised Sheet 30
Second Revised Sheet 31
First Revised Sheet 32
Second Revised Sheet 33 and 34
Third Revised Sheet 35
Second Revised Sheet 36
Third Revised Sheet 37
Second Revised Sheet 38
Third Revised Sheet 39

(M) Material previously appearing on Sheets 23-39 now appears Original Sheets 4 through 20 and
Second Revised Sheet 21 and 22.

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By Chad R. Eckhart, Vice President - Regulatory
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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 7
Second Revised Sheet 1
Cancels First Revised Sheet 1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

I. DESCRIPTION

- A. Digital Capable Loop Service is an intraexchange non-switched private line facility that consists of two loops that connect within the same Serving Central Office (SCO). For example, one loop is provisioned from an Internet Service Provider (ISP) to a SCO and a second loop is provisioned from the same SCO to an end-user customer. The two loops are connected by the Telephone Company at the SCO to provide a complete transmission path.
- B. These loops are furnished on a two-wire or four-wire basis over non-loaded metallic cable facilities and are provided for the transmission of digital signals. In the case whereby the ISP is co-located within a given SCO, Digital Capable Loop Service consists of only one loop.
- C. Digital Capable Loop Service requires the use of customer premises equipment that must be purchased separately from Digital Capable Loop Service and must conform to national industry standards and Part 68 of the FCC Rules and Regulations, as referenced in Section V following.
- D. If Digital Capable Loop Service is used in such a manner as to cause reverse Asymmetrical Digital Subscriber Line (ADSL), the Company will terminate service in order to avoid service degradation in the Telephone Company's facilities.
- E. Digital Capable Loops require termination in equipment collocated in the Telephone Company's SCO or require a dedicated cable from the customer's equipment to the POI (Point of Interface) in the Telephone Company's SCO.

- * Effective August 22, 2003, Digital Capable Loop Service (DCLS) is grandfathered to those existing customers at existing locations, who do not have collocated facilities or do not have dedicated cable from their facilities to the Telephone Company's SCO. Those customers have the option of changing to collocated facilities or dedicated cable from their facilities to the Telephone SCO and may continue to receive DCLS under the conditions and rates specified in Section 7. Existing customers who do not convert to an acceptable configuration will lose their service if they make any changes to their service. Existing customers with existing collocated facilities or dedicated cable from their facilities to the Telephone Company's SCO may continue to receive DCLS under the conditions and rates specified in Section 7.

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 7
First Revised Sheet 1.1
Cancels
Original Sheet 1.1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

II. DEFINITIONS

- A. Dedicated Cable - a copper cable where all pairs are dedicated to the customer.
- B. Four-Wire Facility – A transmission circuit composed of four wires which function together to provide a single, simultaneous, two-way communication path.
- C. Guarded System - A loop transmission system with which Digital Subscriber Line (DSL) systems and other new loop transmission systems are required to demonstrate spectral compatibility. These systems include, but are not limited to, Voice Grade Services, Digital Data Services (DDS), ISDN-BRI Service and Repeated T1 Service.
- D. Internet Service Provider (ISP) - An entity that typically provides a connection for end-users to the Internet.
- E. Non-Loaded Metallic Facility - Cable pairs with no added inductive loading coils, that is, a non-loaded copper cable pair.
- F. Nonrecurring Charge (NRC) - A one-time charge for initial installation and service arrangements.
- G. Serving Central Office (SCO) - The central office from which the customer normally receives dial tone.
- H. Spectral Compatibility - The capability of two different loop transmission system technologies to coexist in the same cable and operate satisfactorily in the presence of crosstalk noise from each other.
- I. Spectrum Management - The administration of the loop plant in a way that provides spectral compatibility for services and technologies that use pairs in the same cable.
- J. Two-Wire Facility - A transmission circuit composed of two wires used to provide a single, simultaneous, two-way communication path.

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By Chad R. Eckhart, Vice President - Regulatory
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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 7
Second Revised Sheet 2
Cancels
First Revised Sheet 2

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF DIGITAL CAPABLE LOOP SERVICE*

(D)

III. TERMS AND CONDITIONS

- A. Digital Capable Loop Service is offered for the connection of two customer locations within a single Serving Central Office distribution area. Provision of these pairs are dependent on the availability of appropriate facilities and does not contemplate construction of such facilities expressly for this service over any route other than that which the Telephone Company would normally provide this service.
- B. The Telephone Company has no obligation to continue to provide this service if suitable facilities are no longer available. Non-availability of suitable facilities may be caused by the continuing need to add new central offices, the transfer of service areas between Serving Central Offices, and the increasing use of digital loop carrier technology on lines between the Serving Central Office and customers locations.
- C. The Telephone Company, at its sole discretion, will qualify the Digital Capable Loop to determine the availability and suitability of existing Telephone Company facilities to support the technology, and to determine if loop conditioning is required to sustain the service. The Telephone Company will not provision Digital Capable Loop Service on facilities that are not suitable for the service. Suitable facilities are those collocated in the Telephone Company's Serving Central Office or when the customer has dedicated cable from their facilities to the Telephone Company's central office.
- D. Digital Capable Loop Service is available only where the customer's service location is within the provisioning limitations as determined prior to installation of the service.

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By Chad R. Eckhart, Vice President - Regulatory
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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embark

Section 7
First Revised Sheet 2.1
Cancels
Original Sheet 2.1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

III. TERMS AND CONDITIONS (Continued)

- E. Loop length is determined by the actual physical length of the facilities used. Physical proximity between the customer locations to be connected is not an indication of loop length or even that the loop can be provided at all. If the locations are served by different Serving Central Offices or the overall length of the facilities exceeds technical limitations, then a loop cannot be provided under this service offering. In general, the sum of the individual loop lengths cannot exceed a maximum cable plant distance of approximately 18,000 feet. The actual distance is dependent on decibel (dBm) loss at the selected data rate, and not just physical loop length.
- F. The Telephone Company will not provision Digital Capable Loop Service if it has reasonably determined that it is not technically feasible, or there is not sufficient capacity over existing facilities or planned capacity, or it will cause interference problems within the existing Telephone Company's network, guarded systems, or other services.

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 7
Second Revised Sheet 3
Cancels
First Revised Sheet 3

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

III. TERMS AND CONDITIONS (Continued)

- G. Digital Capable Loop Service will accommodate only symmetrical transmissions in which the send and receive directions of transmission have the same data signaling rate.
- H. Digital Capable Loop Service may be requested in either one of two configurations: two-wire or four-wire. The two-wire service is implemented with two-wire cable facilities and presents a two-wire interface to the customer premises equipment. The four-wire service is implemented with four-wire cable facilities and presents a four-wire interface. Both configurations allow simultaneous transmission in two directions.
- I. Interconnection of more than two points (i.e., multi-point circuits) will not be provided.
- J. Loop conditioning is available, at no additional charge, and may be required if the facility will not initially accommodate Digital Capable Loop Service. This may include, but is not limited to, the removal of load coils, bridge taps and/or repeaters. The Telephone Company does not warrant that loop conditioning will permit the provision of Digital Capable Loop Service.
- K. The minimum service period for Digital Capable Loop Service is three months.
- L. Unless specifically exempted, the terms and conditions for Digital Capable Loop Service apply in addition to the General Regulations set forth in Section 1 of United Telephone Company's General Exchange Tariff.
- M. Temporary Suspension of Service (Vacation Service) at the customer's request, as defined in Section 20 of United Telephone Company's General Exchange Tariff, is not allowed for Digital Capable Loop Service.
- N. The customer is responsible for payment of a Maintenance of Service Charge, as defined in Section 11 of United Telephone Company's General Exchange Tariff, for visits by the Telephone Company to the customer's premises when a service difficulty resulting in a trouble report is caused by the use of equipment or facilities provided by the customer.
- O. Service Connections, Changes and Moves specified in Section 4 of United Telephone Company's General Exchange Tariff also apply as appropriate.

* Effective August 22, 2003, Digital Capable Loop Service (DCLS) is grandfathered to those existing customers at existing locations, who do not have collocated facilities or do not have dedicated cable from their facilities to the Telephone Company's SCO. Those customers have the option of changing to collocated facilities or dedicated cable from their facilities to the Telephone SCO and may continue to receive DCLS under the conditions and rates specified in Section 7. Existing customers who do not convert to an acceptable configuration will lose their service if they make any changes to their service. Existing customers with existing collocated facilities or dedicated cable from their facilities to the Telephone Company's SCO may continue to receive DCLS under the conditions and rates specified in Section 7.

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By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

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EXHIBIT A

United Telephone
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Section 7
Second Revised Sheet 4
Cancels
First Revised Sheet 4

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

IV. OBLIGATIONS OF THE TELEPHONE COMPANY

- A. The responsibility of the Telephone Company is limited to furnishing network facilities suitable for Digital Capable Loop Service and to the maintenance and operation of such facilities in a manner proper for such service to maintain spectral compatibility using spectrum management techniques. The Telephone Company is not responsible for the through transmission of signals generated by the CPE or attached systems, or for the quality of, or defects in, such transmission or the reception of signals by such equipment or systems.
- B. The Telephone Company is not responsible for installation, operation or maintenance of any terminal equipment, data unit or communications system provided by a customer or user unless provided for under separate contract. The Telephone Company is not responsible for adapting Digital Capable Loop Service to the technical requirements of any specific customer equipment.
- C. The Telephone Company will perform acceptance testing with the customer at the time of installation of Digital Capable Loop Service.
- D. The Telephone Company is not responsible to the customer or user if changes in any of the equipment, operations or procedures of the Telephone Company used in the provision of Digital Capable Loop Service render any facilities or equipment provided by the customer or user obsolete or require modification or alteration of such equipment or system or otherwise affects its use or performance, provided the Telephone Company has met any applicable information disclosure requirements otherwise required by law.

* Effective August 22, 2003, Digital Capable Loop Service (DCLS) is grandfathered to those existing customers at existing locations, who do not have collocated facilities or do not have dedicated cable from their facilities to the Telephone Company's SCO. Those customers have the option of changing to collocated facilities or dedicated cable from their facilities to the Telephone SCO and may continue to receive DCLS under the conditions and rates specified in Section 7. Existing customers who do not convert to an acceptable configuration will lose their service if they make any changes to their service. Existing customers with existing collocated facilities or dedicated cable from their facilities to the Telephone Company's SCO may continue to receive DCLS under the conditions and rates specified in Section 7.

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By Chad R. Eckhart, Vice President - Regulatory
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EXHIBIT A

United Telephone
Company Of Ohio
d/b/a Embarq

Section 7
First Revised Sheet 4.1
Cancels
Original Sheet 4.1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

IV. OBLIGATIONS OF THE TELEPHONE COMPANY (**Continued**)

(N)

- E. In order to maintain the quality of Digital Capable Loop Service, the Telephone Company reserves the right to perform preventative maintenance to the network. The Telephone Company has classified this maintenance as indicated below:

Scheduled Maintenance

Scheduled Maintenance is used to perform such functions as hardware and software upgrades and network optimization. The Telephone Company will perform these tasks in a maintenance window that is defined as occurring between midnight and 6 a.m., local time, seven days per week. The Telephone Company will provide advance notice of all scheduled maintenance.

Demand Maintenance

Demand maintenance may occur as a result of unexpected events and is performed when Digital Capable Loop Service network elements are in jeopardy. The Telephone Company will perform this type of maintenance at its discretion. Due to the nature of demand maintenance prior notification may not be possible; however, the customer will be informed when the maintenance has been completed.

- * Effective August 22, 2003, Digital Capable Loop Service (DCLS) is grandfathered to those existing customers at existing locations, who do not have collocated facilities or do not have dedicated cable from their facilities to the Telephone Company's SCO. Those customers have the option of changing to collocated facilities or dedicated cable from their facilities to the Telephone SCO and may continue to receive DCLS under the conditions and rates specified in Section 7. Existing customers who do not convert to an acceptable configuration will lose their service if they make any changes to their service. Existing customers with existing collocated facilities or dedicated cable from their facilities to the Telephone Company's SCO may continue to receive DCLS under the conditions and rates specified in Section 7.

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embarq

Section 7
Second Revised Sheet 5
Cancels
First Revised Sheet 5

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

V. OBLIGATIONS OF THE CUSTOMER

- A. The customer is responsible to ensure all terminal equipment complies with the current standards specified in American National Standards Institute (ANSI) Letter Ballot 785 or the final Technical Publication on Spectrum Management for Loop Transmission Systems when completed, as found at internet site, <http://www.t1.org>. Proposed standards include the following types of industry requirements and recommendations for certain defined digital subscriber line spectrum management classes: power spectral density, total average power, transverse balance deployment restrictions and loop assignment guidelines. The customer should recognize and understand that the conditions of the ANSI standard continue to evolve. The customer will not operate the DSL terminal equipment in Asymmetrical Digital Subscriber Line (ADSL) mode in violation of the spectrum management standard.
- B. The purpose of this standard is to minimize the potential for crosstalk interference in twisted pair subscriber loop cables that are shared by multiple users. When a single carrier deploys technologies in loop plant, it alone has the responsibility for spectral compatibility and may select any combination of compatible loop technologies. In an unbundled loop environment however, multiple carriers utilize pairs in the same loop cables. In such instances, if services and technologies are deployed in an uncoordinated manner, they may interfere with each other. The proposed standard is intended to be used by carriers to manage the loop plant to achieve spectral compatibility.
- C. In some instances a particular installation using a particular DSL spectrum management class may need to reduce its expected performance level (i.e., data rate, bit error rate, etc.) in order to achieve and maintain spectral compatibility with one or more of the guarded systems. If this standard permits such a reduction for a particular DSL spectrum management class, it shall be explicitly stated for that class. This standard does not, and shall not, permit a reduction in the performance of a guarded system.

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EXHIBIT A

United Telephone
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Section 7
Second Revised Sheet 6
Cancels
First Revised Sheet 6

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

V. OBLIGATIONS OF THE CUSTOMER (Continued)

- D. The proposed ANSI standard defines signal power limits for several DSL spectrum management classes. The requirements apply to signals transmitted by DSL transceivers units whether located in a Central Office or a remote terminal location. The remote terminal location is usually on or near the customer premises. This tariff offering is limited to spectrum management classes 1, 2, 3 and 4 only, as defined in the proposed spectrum management standard.
- E. The characterization of a transmitted signal by power level and frequency content is called the power spectral density (PSD) of the signal. The primary signal power requirements in this standard are specified through the use of PSD masks and templates. The PSD mask shows the maximum power boundary or limit, in dBm per Hz, for the transmitted signal. The use of the PSD masks and templates is described more fully in the ANSI proposed standard for which this tariff offering contemplates the customer will comply.
- F. Part 68 of the FCC Rules and Regulations contain mandatory signal power limits for several types of CPE including voice, voice band data, DDS subrates, public switched digital services, ISDN, local area data channel and T1. The proposed spectrum management standard defines signal power limits for several DSL spectrum management classes that are not currently covered by Part 68. This offering contemplates any equipment connected to the network will meet existing Part 68 rules with the exceptions noted above or when Part 68 is amended in the future, the equipment will comply with the new rules.

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EXHIBIT A

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Section 7
First Revised Sheet 6.1
Cancels
Original Sheet 6.1

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

V. OBLIGATIONS OF THE CUSTOMER (Continued)

- G. The customer is responsible for any necessary customer provided equipment adjustments or modifications, up to and including replacement due to technological changes or rearrangements in the network.
- H. The customer is responsible for testing, sectionalization and clearance of trouble conditions or service difficulties on any terminal equipment or communications systems connected to Digital Capable Loop Service unless such services are contracted for separately or are covered under other tarified services.
- I. The operating characteristics of CPE or systems shall be such as not to interfere with any services offered by the Telephone Company. Such use is subject to the further provisions that the equipment provided by the customer or user does not endanger the safety of Telephone Company employees or the public; does not damage, harm, require change in or alteration of the equipment or other services of the Telephone Company; does not interfere with the proper operation of the Telephone Company's equipment; or does not otherwise injure the public in its use of Telephone Company services. Upon notice from the Telephone Company that the equipment provided by the customer or user is causing, or is likely to cause, such hazard or interference, the customer shall take the necessary steps to remove or prevent such hazard or interference.

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EXHIBIT A

United Telephone
Company of Ohio
d/b/a Embargo

Section 7
Third Revised Sheet 7
Cancels
Second Revised Sheet 7

P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

V. OBLIGATIONS OF THE CUSTOMER (Continued)

- J. Upon request, the customer is responsible for providing the Telephone Company with the necessary information to provision Digital Capable Loop Service. This information includes, but is not limited to, technical specifications associated with the CPE (e.g., the certification by a testing lab of such equipment used in combination with Digital Capable Loop Service).
- K. The customer ordering Digital Capable Loop Service on behalf of its subscriber(s) must obtain written authorization in the form of a letter of agency.

VI. APPLICATION OF RATES

- A. Digital Capable Loop Service will be charged at monthly recurring rates determined by service configuration (i.e., two-wire or four-wire), the number of loops (i.e., one loop or two loops) required to provision the service, and band classification (i.e., band 1, band 2, band 3, band 4 or band 5) as determined by cost characteristics of the exchange.
- B. A Nonrecurring Charge will apply for each loop of the Digital Capable Loop Service for which the customer subscribes.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF DIGITAL CAPABLE LOOP SERVICE*

VII. RATES AND CHARGES

		Minimum Monthly Rate		Minimum Nonrecurring Charge (per loop)
		<u>One Loop</u>	<u>Two Loops</u>	
A.	Two-Wire			
	Band 1	\$ 23.96	\$ 47.93	\$147.13
	Band 2	34.21	68.43	147.13
	Band 3	45.22	90.44	147.13
	Band 4	63.65	127.29	147.13
	Band 5	91.12	182.23	147.13
B.	Four-Wire			
	Band 1	\$ 37.73	\$ 75.47	\$179.97
	Band 2	55.01	110.02	179.97
	Band 3	73.53	147.06	179.97
	Band 4	104.56	209.12	179.97
	Band 5	150.82	301.65	179.97

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

VII. RATES AND CHARGES (Continued)

- C. Exchanges are classified by bands as follows. For exchanges with multiple Serving Wire Centers, the Common Language Location Identifier (CLLI) for each wire center is also shown.

<u>Exchange</u>	<u>CLLI</u>	<u>Band</u>	<u>Exchange</u>	<u>CLLI</u>	<u>Band</u>
Ada		3	Bucyrus		3
Adamsville		5	Butler		5
Adario		5	Byhalia		5
Alexandria		5	Cairo		5
Alger		5	Caledonia		5
Andover		5	Camden		4
Anna		5	Cardington		5
Ansonia		5	Centerburg		5
Apple Creek		4	Chatfield		5
Arcanum		4	Chesterhill		5
Archbold		3	Chesterville		5
Bartlett		5	Cortland		3
Beaverdam		5	Crooksville		3
Belle Center		5	Croton		5
Bellefontaine		2	Cygnnet		5
Bellville		4	Damascus		4
Berlin Center		4	Danville		5
Big Prairie		5	Defiance		2
Bloomdale		5	DeGraff		5
Bluffton		3	Delphos		2
Botkins		5	Deshler		5
Bradford		4	Dunkirk		5
Bristolville		4	East Liberty		4

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

VII. RATES AND CHARGES (Continued)

C. Exchanges are classified . . . (Continued)

<u>Exchange</u>	<u>CLLI</u>	<u>Band</u>	<u>Exchange</u>	<u>CLLI</u>	<u>Band</u>
Eaton		3	Junction City		5
Eldorado		5	Kidron		4
Elida		2	Killbuck		5
Florida		5	Kinsman		5
Fort Laramie		5	Lafayette		5
Fazeysburg		4	Lake Milton		4
Fredericksburg		5	Lebanon		2
Fredericktown		4	Lexington		3
Gambier		5	Liberty Center		5
Gerald		2	Lima	LIMAOHXA	2
Gettysburg		5	Lima	LIMAOHXB	2
Glenmont		5	Lucas		5
Glouster		5	Luckey		5
Gomer		5	Lykens		5
Green Springs		5	Lyons		5
Greene		5	Magnetic Springs		5
Greenville		3	Mansfield	MNFDOHXA	1
Grelton-Malinta		5	Mansfield	WLDROHXA	2
Hamler		5	Mansfield	MNFDOHXD	2
Hartford		5	Mansfield	MNFDOHXB	2
Hebron		3	Mansfield	MNFDOHXC	2
Holgate		5	Marengo		5
Hollansburg		5	Marshallville		5
Holmesville		5	Martinsburg		5
Huntsville		5	Marysville		3
Jackson Center		5	Mason		2
Jefferson		3	McConnelsville		5
Jewell		5	Metamora		5
Johnston		5	Milford Center		5
Johnstown		3	Millersburg		4
Johnsville		5	Moline		2

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PRIVATE LINE SERVICE TARIFF

DIGITAL CAPABLE LOOP SERVICE*

VII. RATES AND CHARGES (Continued)

(T)

C. Exchanges are classified . . . (Continued)

(T)

<u>Exchange</u>	<u>CLLI</u>	<u>Band</u>	<u>Exchange</u>	<u>CLLI</u>	<u>Band</u>
Morrow		4	Shreve		4
Mt. Gilead		4	Sidney		2
Mt. Sterling		5	Smithville		4
Mt. Vernon		3	South Lebanon		2
Mt. Victory		5	Sterling		5
Napoleon		2	Stockport		5
Nashville		5	Stony Ridge		4
New Lyme		5	Stryker		4
New Madison		4	Sunbury		3
New Paris		4	Swanton		3
Newton Falls		2	Utica-Homer		5
New Winchester		5	Van Wert		2
North Benton		5	Venedocia		5
North Lewisburg		5	Versailles		4
Old Fort		5	Warren	WRRNOHXB	1
Orrville		2	Warren	WRRNOHXA	1
Ottawa		3	Warren	WRRNOHGX	1
Pataskala		3	Warren	LRTWOHXA	2
Pennsville		5	Warren	LVBGOHXA	2
Portage		5	Warren	WRRNOHXE	2
Raymond		4	Warren	WRRNOHXF	2
Reinersville-Hackney		5	Waterville		3
Richfield Center-Berkey		5	Wauseon		3
Ridgeway		5	Wayland		5
Risingsun		5	Waynesfield		5
Rittman		2	Waynesville		3
Rockford		5	West Liberty		5
Rosewood		5	West Manchester		5
Rosburg		5	West Mansfield		5
Rushsylvania		5	Westminster		5
Russells Point	RSPNOHXA	3	Windham		2
Russells Point	RSPNOHXB	3	Woodville		3
Shelby		2	Wooster	MDBROHXA	3
Shiloh		5	Wooster	WSTROHXA	2
			York Center		5

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First Revised Sheet 1
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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ATM SERVICE

I. Description

- A. Asynchronous Transfer Mode (ATM) Service is a connection-oriented fast packet local, intraLATA, and intrastate interLATA network service that permits the transmission of high speed data, voice, and video traffic utilizing cell switching technology. ATM is offered for local, intraLATA and intrastate interLATA use where Telephone Company facilities exist. ATM cells are fixed length cells that provide symmetrical or asymmetrical duplex transmissions. Utilizing statistical multiplexing, ATM Service enables customers to allocate circuit bandwidth to applications as needed on virtual paths or channels. ATM Service allows multiple communications applications to be transmitted within multiple paths or channels utilizing common fiber optic or copper facilities. ATM Service is primarily designed for businesses with multiple locations requiring the transport of data, voice, or video traffic among the sites. ATM Service allows for the interconnection of Customer Premises Equipment (CPE) that is ATM compatible.
- B. Permanent Virtual Circuits (PVCs) are logical channels between the customer's premises and ports on an ATM switch or between ATM switches. PVCs are duplex channels that are established via the service order process. Separate PVCs must be established to each customer location at which the customer desires ATM Service. PVC channels are virtual channels that are established in software tables. Multiple PVCs can be defined over a single ATM User Network Interface (UNI), thereby providing a single access line with the capability to transmit data, voice, and video to multiple destinations simultaneously. A PVC can be set up as either a Virtual Path (VP) or a Virtual Channel (VC) type connection. A VP may contain multiple VCs, referred to as tunneling. Tunneling allows customers to establish VCs or end to end connections between the customer CPE, via VPs.
- C. ATM Service requires the use of CPE that functions as a multiplexer, aggregator, concentrator, or router. This CPE must be purchased separately from the ATM Service and must conform to the Consultative Committee for International Telecommunication Union (ITU) Standards, ATM Forum Standards, and Telephone Company ATM CPE standards. Only Telephone Company standardized equipment may be connected to the ATM network. The CPE functions to accumulate customer data and transfers it into an ATM format suitable for transmission over the ATM Network.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ATM SERVICE

I. Description (Continued)

- D. In the operation of ATM, the CPE captures arriving data into fixed-length ATM 53-byte cells. These cells contain a 48-byte cell user information segment, and a five-byte header containing a Virtual Path Identifier (VPI) and a Virtual Channel Identifier (VCI), identifying which PVC in the network should be used to forward the cell to the proper destination. The CPE sends the cells into the ATM Network over a dedicated access facility called an ATM Access Line that includes a UNI, which is a port on the ATM switch. The ATM switch, usually located in the Telephone Company central office, reads identifying header information and routes the cell to the proper destination based on a pre-established PVC, over a VP and/or VC.
- E. ATM Service is capable of handling the requirements of bursty data sources because of the ability of the service to allocate additional bandwidth when not in use by other sources. ATM Service can also transmit delay sensitive traffic such as voice and video, on the same physical circuit, but with different Quality of Service (QoS) on separate PVCs, within the same physical circuit.
- F. ATM Service is provided to the customer in the form of an ATM Access Line (a physical line, either fiber or copper) from the Customer Designated Location (CDL), an ATM UNI port on the ATM switch, and the ATM network bandwidth via a PVC or multiple PVCs. The ATM UNI port access options available are: DS1, 2xDS1, 4xDS1, 6xDS1, DS3, and OC3. OC3 service is available at tariff rates only from serving central offices that have an ATM switch. OC3 service is available at Individual Case Basis (ICB) rates from serving central offices that do not have an ATM switch. Information Rate (IR) or equivalent bandwidth in the network required to support Quality of Service parameters, for PVCs is available in bands ranging from 56 Kbps/64 Kbps up to 155 Mbps.
- G. The actual equivalent bandwidth or IR for aggregated PVC bandwidths cannot exceed the port speed, or the port line transfer rate. The customer must specify a category of service (or Quality of Service, "QoS") for each PVC to be connected to the ATM network. The QoS category defines the performance parameters for each connection to meet specific networking requirements. The Telephone Company provides three categories of service:
1. Constant Bit Rate (CBR), for delay or timing sensitive traffic such as voice or interactive video, provides a constant data rate and consistent delay parameters throughout the ATM network. CBR PVCs are given the highest priority in the ATM network, and are provisioned to provide the minimum Cell Delay Variation (CDV) or "jitter". The Peak Cell Rate (PCR), which is the highest transmission rate the logical connection will allow, must be specified by the customer.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ATM SERVICE

I. Description (Continued)

G. The actual equivalent bandwidth . . . (Continued)

2. Variable Bit Rate (VBR-nrt), a non-real time service designed for bursty data applications that provides a pre-assigned variable bit rate. VBR-nrt requires two traffic parameters: (1) PCR, which defines the maximum rate of transmission, and (2) Sustained Cell Rate (SCR), which provides an average information rate expected on the connection. Customers must specify the SCR for VBR-nrt ATM Service. Oversubscription is allowed with VBR.
3. Unspecified Bit Rate (UBR), takes advantage of excess network bandwidth and is best suited for communication applications where timing of delivered data is not critical. UBR is well suited to Internet protocol LAN traffic, which has inherent reliability, and can tolerate occasional cell discarding. PCR and SCR values are not used with UBR. An advantage of UBR is that ATM cells can be transmitted up to the port line rate, if available, rather than being limited to a predefined maximum PCR, as with VBR and CBR. However, a minimum level of bandwidth is not guaranteed.

H. Since multiple PVCs may be defined on one physical port, it is possible for the cumulative data IRs of multiple PVCs to exceed the physical bandwidth of the port. This is referred to as oversubscription, and when this occurs there will be no guarantee that the IR defined for the port and PVC will be available at any point in time.

I. IRs are traffic management parameters that allow the customer to fine tune implementation of ATM Service. The IRs of PVCs can be customer specified and can be ordered in increments of bandwidth. IRs can be used on CBR and VBR-nrt PVCs only. IRs for UBR are by definition not used, and IRs can be up to the line rate or the UNI port transfer rate. UBR uses available network bandwidth and is a "best effort" service; therefore there are no guarantees with the delivery of UBR traffic. An IR is assigned to each PVC symmetrically (two-way).

J. For CBR PVCs, the customer may specify IRs in terms of PCR. The maximum PCR for a CBR PVC is limited to 99% of the port transfer rate. When CBR traffic is mixed with VBR-nrt and UBR on the same port, the sum of all the PCRs associated with the CBR PVCs must not exceed 50% of the maximum IR of the ATM port. The PCR should never exceed the PCR available at the lowest port access between the local and remote locations. For VBR PVCs, the value of the SCR for ATM traffic may be defined between 20%-70% of the PCR. The user can burst above the PCR for short periods only. The limit for VBR-nrt transmission at the PCR is 250 cells. This limit is called the Maximum Burst Size (MBS). If the MBS is exceeded, a period of lower activity must follow to meet the SCR. UBR traffic IRs are not specified and use only available network bandwidth and may burst up to the line rate.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ATM SERVICE

II. Definitions

- A. ATM Access Line (ATM-AL) - Provides access to the ATM Network. An ATM Access Line includes both the physical dedicated local loop and a UNI port on the ATM switch.
- B. ATM Class of Service - Refers to service categories defined by the ATM Forum which define the traffic parameters for each PVC. These categories, CBR, VBR, and UBR and their related parameters, partially define the traffic between the Telephone Company and the customer for each PVC.
- C. ATM Network Link (ATM-NL) – ATM Network Links are used to physically connect the Telephone Company ATM network with the ATM network of any adjacent Local Exchange Carrier. ATM Network Links are offered in the same port speeds as the ATM Access Lines.
- D. ATM Port - A port on the ATM network that is used to interconnect other Telephone Company provided private line services such as TransLink, a digital cross connect system port to ATM or an ICB contract transport solution. The ATM Port is the physical entry point for PVCs. Ports include the electronic equipment used in connecting these service elements to the ATM Network and enable customers to allocate bandwidth to applications as needed.
- E. ATM Service Network Serving Area – Area encompassing certain serving area points. Serving area points are those Telephone Company central offices designated for the ATM Network.
- F. Cell – A unit of transmission in ATM that is a fixed size frame consisting of a 5-byte header and a 48-byte information payload.
- G. Customer Designated Location (CDL) - The geographic location designated by the customer where the customer's CPE is first considered to enter the Telephone Company's network.
- H. Early Packet Discard (EPD)– The procedure for discarding cells related to a frame or packet to minimize the impact of congestion in the ATM network. This discarding technique with Partial Packet Discard (PPD) minimizes the amount of packets that must be retransmitted during congestion. EPD is for UBR traffic only.
- I. Frame Relay Service (FRS) – A fast packet network that provides the customer high-speed access and through-put to different customer addresses. Utilizing statistical multiplexing, the frame relay network enables the customer to allocate bandwidth to applications as needed, rather than dedicating fixed channels to specific applications. Frame Relay is primarily used in applications requiring short, intensive bursts of data at high speeds. Frame Relay operates at access speeds of 56/64 Kbps, 128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, DS1 (1.544 Mbps), or DS3 (44.736 Mbps).

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ATM SERVICE

II. Definitions (Continued)

- J. Gateway Service – Allows the Telephone Company ATM customers to interconnect to another ATM or Frame Relay Network. The service is available wherever the Telephone Company has established a network interface with another private or public ATM or Frame Relay network. Gateway Service is only available where such network connectivity exists or where suitable connectivity arrangements can be made that are acceptable to the Telephone Company.
- K. Individual Case Basis (ICB) - Process by which non-tariffed products and services can be provided to the customer.
- L. Information Rate (IR) - Defines the amount of equivalent bandwidth in the network required to support Quality of Service parameters. IR is administered per PVC, on a VP or VC basis. Any data burst beyond the IR may be labeled Discard Eligible (DE) if the data transfer rate exceeds the PCR of the PVC being used. If the ATM network develops congestion, the Early Packet Discard (EPD) and Partial Packet Discard (PPD) cell buffering techniques will be implemented in Telephone Company ATM switches. At service subscription, the customer must specify the PCR, SCR and MBS associated with each PVC. The retransmission of discarded cells is administered by the customer's CPE.

The Information Rate consists of the three QoS levels (CBR, VBR-nrt or UBR) previously described in Section I G. These levels of service provide the flexibility necessary to service all applications successfully. The customer is responsible for selecting the level of QoS.
- M. Local Access and Transport Area (LATA) - Denotes a geographic area established for the provision and administration of communications service. It encompasses one or more designated exchanges that are grouped to serve common social, economic, and other purposes.
- N. Local Area Network (LAN) – A local network permitting the interconnection and intercommunication of a group of computers, primarily for the sharing of resources such as data storage devices and printers.
- O. Logical Channel – A communications channel that allows two-way, simultaneous transmission of sequenced data packets through the network. No circuit capacity is preassigned to a logical channel. Capacity is made available as the data is transmitted. Each PVC is considered one logical channel or one virtual channel.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ATM SERVICE

II. Definitions (Continued)

- P. Maximum Burst Size (MBS) - Denotes the maximum number of consecutive cells that may be transmitted to the Telephone Company ATM network in a single burst at a rate that exceeds the SCR, but does not exceed the PCR, assigned to the VBR connection. MBS is a traffic parameter considered only for VBR traffic. Cells exceeding the MBS will be declared as non-conforming and will be buffered or discarded, depending on the level of congestion.
- Q. Permanent Virtual Circuit (PVC) - Provides software-defined electronic path between two ports within the ATM Network. Each UNI requires the purchase of at least one PVC. A UNI or UNI Port connection can be associated with multiple PVCs. Since all PVCs need not be in use at the same time, it is possible for the total IR of all PVCs associated with one port to exceed the bandwidth of the port. It is not possible, however, for the simultaneous aggregation of the PVCs equivalent bandwidth to exceed the bandwidth of the port. Such a relationship is referred to as oversubscription or overbooking. When oversubscription occurs, there is no guarantee that the bandwidth defined for a VBR-nrt or UBR PVC will be available at any point in time. CBR PVC bandwidth is always guaranteed in oversubscription situations.
- R. Protocol - A specific set of rules, procedures or conventions relating to format and timing of data transmission. It is a standard procedure that multiple data devices must accept and use in order to communicate with each other. Protocols break a file into parts called blocks or packets. When blocks or packets are sent, the receiving computer checks the arriving packets and sends an acknowledgment back to the sending computer.
- S. Route Diversity - A separate and diverse physical route from the customer premises to the Telephone Company Serving Central Office. This includes a separate fiber optic pair assignment in two different and distinct fiber optic cables.
- T. Serving Central Office (SCO) - The Telephone Company central office from which the customer normally receives dial tone. The customer's SCO may or may not have an ATM switch. Each SCO without an ATM switch will connect to an SCO with an ATM switch.
- U. Statistical Multiplexing - A multiplexing technique in which timeslots are dynamically allocated on the basis of need rather than being predetermined. The data is typically transmitted on a first come, first served basis.

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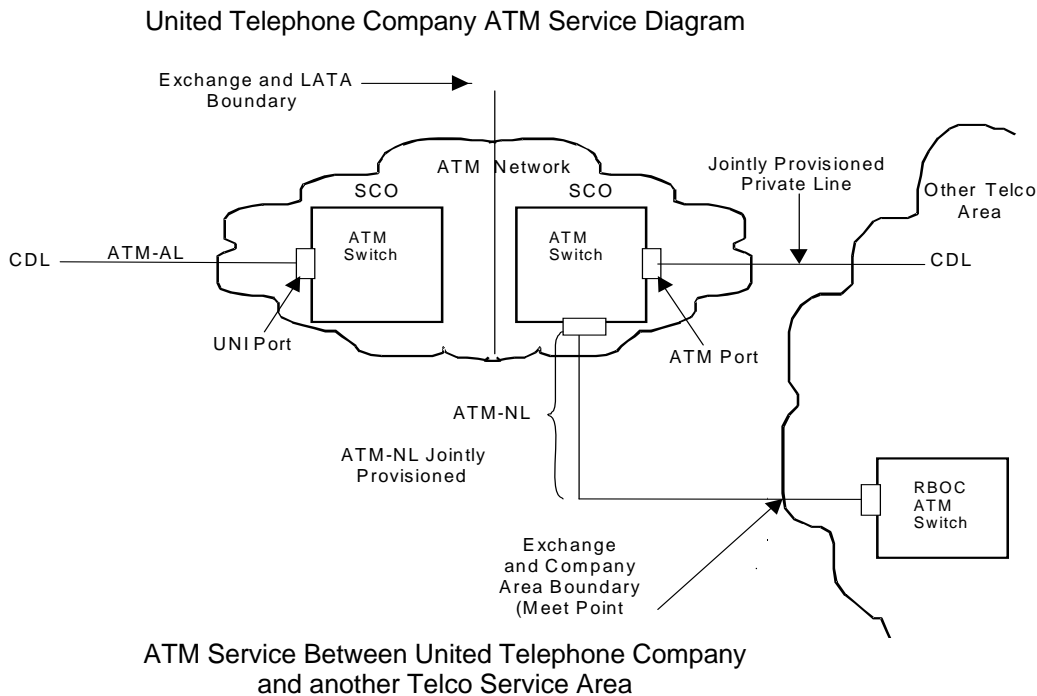
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ATM SERVICE

II. Definitions (Continued)

- V. UNI Port– A port on the Telephone Company ATM switch that is used to connect to the access line. The UNI port is the physical entry point for access to PVCs. The UNI port is on the line side or customer side of the ATM switch. UNI ports include the Telephone Company ATM switching equipment used in connecting these service elements to the ATM Network and enable customers to allocate bandwidth to applications as needed.
- W. User to Network Interface (UNI) – A standard interface used to connect the end user to the Telephone Company ATM switch. It receives data cells from the customer's LAN or other CPE devices and verifies that the data is in a valid ATM format before relaying the ATM cells to the destination point.

The following diagram illustrates some of the above mentioned terms:



Legend

ATM-AL	ATM Access Line (Includes UNI Port)
ATM-NL	ATM Network Link
ATM-Port	Facilities not included
CDL	Customer Designated Location
SCO	Serving Central Office
UNI Port	Intracompany Provisioned User to Network Interface

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EXHIBIT A

United Telephone
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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

ATM SERVICE

III. General Regulations

- A. ATM Service is provided to the customer in two forms. The first is ATM Access Line and PVC at a specified IR. The ATM Access Line includes the UNI port. The second is a digital private line transport facility, an ATM access port, otherwise known as a UNI, and a PVC at a specified IR. A PVC must be ordered for transmission between any two locations.
- B. ATM Service is provided subject to the availability of appropriate facilities.
- C. The minimum service period for ATM Service is six months. ATM Service may be ordered for an initial six-month term or through a Term Discount Plan for fixed periods of up to 84 months.
- D. When the customer orders additional PVCs, nonrecurring charges will apply. In addition, Administrative Charges will apply to all changes made to a customer's ATM configuration at the customer's request.
- E. The ATM access services not covered by this tariff will be ordered from the Telephone Company's Private Line Service Tariff, the **Embarq** Intrastate Access Service Tariff, or the **Embarq** Local Telephone Company's F.C.C. No. 1 Tariff, or through an Individual Case Basis (ICB) contract. (T)
- F. Special Types of Construction or Facilities, as defined in Section 5 of United Telephone Company's General Exchange Tariff, may apply when technical limitations and/or the lack of facilities exist, or if it is necessary to construct facilities to satisfy service requests.
- G. Whenever facilities are provided jointly by the Telephone Company and one or more other telephone companies, the regulations, rates and charges of such other telephone companies apply for the equipment and facilities furnished by them for use in connection with the interexchange ATM Service provided by the Telephone Company.
- H. Where private line, Frame Relay Service, or ATM Service is required to interconnect to the Telephone Company's ATM Service for a customer having locations outside of the Telephone Company service area, such service will be furnished only if satisfactory arrangements can be made with the other local or inter-exchange carrier.
- I. Temporary Suspension of Service at the customer's request, as defined in Section 20 of United Telephone Company's General Exchange Tariff, is not allowed for ATM Service.
- J. The customer is responsible for payment of a Maintenance of Service Charge, as defined in Section 11 of United Telephone Company's General Exchange Tariff, for visits by the Telephone Company to the customer premises when a service difficulty resulting in a trouble report is caused by the use of equipment or facilities provided by the customer. (T)

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III. General Regulations (Continued)

- K. DS1 and NxDS1 ATM Service is not offered as a survivable service unless an alternate route is constructed. DS1 and NxDS1 diverse route service is not included in the rates and charges specified in Section VIII following and is subject to Special Types of Construction or Facilities, as defined in Section 5 of United Telephone Company's General Exchange Tariff, as well as any monthly rates charged under an ICB. DS3 and OC3 ATM Service does not include SONET Ring protection nor diverse route service. These services may be subject to Special Types of Construction or Facilities, as defined in Section 5 of United Telephone Company's General Exchange Tariff, as well as any monthly rates charged under an ICB.

IV. Obligations of the Telephone Company

- A. The responsibility of the Telephone Company is limited to furnishing network equipment suitable for ATM Service and to the maintenance and operation of such equipment in a manner proper for such service. Subject to this responsibility, the Telephone Company is not responsible for the through transmission of signals generated by the CPE or systems, or for the quality of, or defects in, such transmission or the reception of signals by such equipment or systems.
- B. The Telephone Company is not responsible for installation, operation or maintenance of any terminal equipment, data unit or communications system provided by a customer or user unless provided for under separate contract. The Telephone Company is not responsible for adapting ATM Service to the technological requirements of any specific customer equipment.
- C. The Telephone Company is not responsible to the customer or user if changes in any of the equipment, operations or procedures of the Telephone Company used in the provision of ATM Service render any facilities or equipment provided by the customer or user obsolete or require modification or alteration of such equipment or system or otherwise affect its use or performance, provided the Telephone Company has met any applicable information disclosure requirements otherwise required by law.

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ATM SERVICE

IV. Obligations of the Telephone Company (Continued)

- D. In order to maintain the quality of ATM Service, the Telephone Company reserves the right to perform preventative maintenance and software updates to the network. The Telephone Company has classified this maintenance as indicated below:

Scheduled Maintenance

Scheduled maintenance is used to perform such functions as hardware and software upgrades and network optimization. The Telephone Company will perform these tasks in a maintenance window that is defined as occurring between midnight and 6 a.m., local time, on Monday. The Telephone Company reserves the same time period for any other day(s) of the week to facilitate maintenance which cannot be completed during the Monday maintenance window. The Telephone Company will provide advance notice of all scheduled maintenance.

Demand Maintenance

Demand maintenance may occur as a result of unexpected events and is performed when ATM Service network elements are in jeopardy. The Telephone Company will perform this type of maintenance at its discretion. Due to the nature of demand maintenance prior notification may not be possible; however, the customer will be informed when the maintenance has been completed.

V. Obligations of the Customer

- A. The customer's ATM compatible terminal equipment is responsible for retransmitting cells or packets that are discarded due to errors or network congestion.
- B. Where ATM Service is available for use in connection with communications systems or equipment provided by a customer or user, the operating characteristics of such systems or equipment shall be such as not to interfere with any services offered by the Telephone Company. Such use is subject to the further provisions that the equipment provided by the customer or user does not endanger the safety of Telephone Company employees or the public; does not damage, harm, require change in or alteration of the equipment or other services of the Telephone Company; does not interfere with the proper operation of the Telephone Company's equipment; or does not otherwise injure the public in its use of Telephone Company services. Upon notice from the Telephone Company that the equipment provided by the customer or user is causing, or is likely to cause, such hazard or interference, the customer shall take the necessary steps to remove or prevent such hazard or interference.
- C. The customer, upon request, shall furnish such CPE information as may be required to permit the Telephone Company to design and maintain the ATM Service it offers and to assure that the service arrangement is in compliance with the regulations contained herein.

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V. Obligations of the Customer (Continued)

- D. Upon service subscription, the customer should specify the equivalent bandwidth and Class of Service for each PVC ordered. A default of fifty (50) percent of the smallest port size will be assigned as the IR should the information not be provided. No individual PVC IR shall exceed (99) percent of the UNI port access rate. The sum of all PCRs on a single ATM port must not exceed five hundred (500) percent of the port line rate. The sum of all SCRs on a single ATM port must not exceed two hundred (200) percent of the port line rate.

VI. Term Discount Plan (TDP)

- A. Term Discount Plan (TDP) provides the customer with discounted tariff rates for the ATM Access Line (ATM-AL), ATM Port (Port Only) and the ATM-Network Link (ATM-NL). The customer agrees to a minimum service commitment period for these elements when the TDP is established. Customers may disconnect or move PVCs and not be subject to termination liability charges. The customer must order a TDP in writing to the Telephone Company. A TDP may be ordered in one month increments based on the following plan options;

Plan A:	12 - 23 months
Plan B:	24 - 35 months
Plan C:	36 - 59 months
Plan D:	60 - 84 months

- B. The customer must specify the length of the initial service period at the time the service is ordered. When a customer converts to a TDP, no administrative charges are applied toward facilities in service at that time. If a customer moves from a month-to-month plan to a TDP, or upgrades from one TDP to a longer term TDP, no administrative charges are applied.
- C. If a customer under the TDP disconnects all or a portion of the ATM Access Line, ATM Port and/or ATM-Network Link TDP service prior to the expiration of the TDP, then a Termination Liability Charge will apply to those services that are disconnected. The Termination Liability charge will be a one-time charge equal to the sum of 50% of payments remaining for the rest of the TDP. If Special Types of Construction or Facilities were applied to the service being terminated, any termination charges associated with the Special Types of Construction or Facilities will also apply.*

* Customers under contract prior to April 14, 2003, are grandfathered pursuant to the terms and conditions outlined in the contract.

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VI. Term Discount Plan (TDP) (Continued)

- D. Rate changes as approved by the Ohio P.U.C. will automatically be applied to the monthly term plan rates for the remaining term of the TDP. If a Company initiated rate increase to any rate element or combination of rate elements causes the charges for the entire ATM Access Line, ATM Port and/or ATM Network Link service under the TDP to increase by 10% or more annually then the customer may cancel the TDP without incurring termination liability charges provided the customer notifies the Company within 30 days after the effective date of the rate increase.*
- E. TDP commitment periods can be extended by the customer at any time during the term of the plan, up to a maximum of 84 months. The number of months accrued in the current plan will be applied toward the new plan selected.
- F. At the end of the TDP service commitment period, the customer may subscribe to a new TDP at the prevailing rates set forth in Section VIII following. If the customer does not select a new TDP, the rates will convert to the prevailing month-to-month rates.
- G. Termination Liability Charges will not apply when a service or rate element under a Term Discount Plan (TDP) is disconnected prior to the expiration of a selected service period as a result of a upgrade in tariff jurisdiction and/or a customer requested change to a next generation service offering under the following conditions:

The service period of the new Term Discount Plan for the new service offering is a period equal to or exceeding the remaining service period of the disconnected, and

The service orders to install the new service and disconnect the old service are related together, and there is no lapse in service between the installation of the new service and the disconnection of the existing service, and

The service orders are for the same customer at the same location.
- H. The Company will determine whether the replacement service qualifies as a next generation service offering.
- I. Nonrecurring Charges and Service Connection Charges for the new service will apply according to the requirements of the new service.
- J. Commission approval of the above termination liability language is not intended to indicate that the Commission has approved or sanctioned any terms or provisions contained therein. Signatories to such contracts shall be free to pursue whatever legal remedies they may have should a dispute arise.

* Customers under contract prior to April 14, 2003, are grandfathered pursuant to the terms and conditions outlined in the contract.

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VII. Service Components

- A. Administrative Charge – Applies to changes in a customer's network associated with PVCs. Although multiple changes can be caused by such actions, only one administrative charge applies per customer request.

This administrative charge applies in addition to applicable charges associated with Service Connections, Changes and Moves, as specified in Section 4 of United Telephone Company's General Exchange Tariff.

- B. ATM Access Line (ATM-AL) - A nonrecurring charge and monthly rate based on the connection line speed of the local loop access line. The access line is from the CDL to the serving central office and includes the UNI port on the ATM switch. Special Types of Construction or Facilities may apply, if facilities do not already exist. Route Diversity of the local loop portion of ATM Access Line also may require Special Types of Construction or Facilities.

Where the CDL is located in another telephone company's service area, the ATM Access Line charges provide for transport to the meet-point boundary with the other local telephone company. Charges for service from the meet-point boundary to the CDL will be the responsibility of the customer based on the rates and charges of each jointly provisioning telephone company.

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VII. Service Components (Continued)

- C. ATM Additional Access Line (ATM-AAL) – A non-recurring charge and a monthly rate based on the connection line speed of the local loop access line. For DS3 service, up to two DS3 ATM AALs can be purchased at the rates and charges specified in Section VIII B. after the initial DS3 ATM Access Line has been purchased. The DS3 ATM AAL must be located on the same fiber optical terminal and the same fiber route. For OC3 service, up to three OC3 ATM AALs can be purchased at the rates and charges specified in Section VIII B. after the initial OC3 ATM Access Line has been purchased provided that the Fiber Optic Terminal (FOT) at the CDL is an OC12 FOT. The OC3 ATM AAL must be located on the same fiber optical terminal and the same route. The ATM AAL is only offered where facilities are available.
- D. ATM Network Link (ATM-NL) – A nonrecurring charge and monthly rate based on the DS1 or DS3 port at the Telephone Company's ATM switch and transport from the ATM switch to the interconnecting ATM Service. Where the service is jointly provisioned with another telephone company, the appropriate charges will be based on the distance from the ATM to the meet-point boundary with the other telephone company. Charges for service from the meet-point boundary to the other company's ATM switch will be the responsibility of the customer based on the rates and charges of each jointly provisioning telephone company. In addition to a DS1 or DS3 ATM Network Link, a minimum of one Gateway Service for bandwidth will apply.
- E. ATM Port - A nonrecurring charge and monthly rate based on the speed of the port connection applies per port connection to the network supporting ATM. The port rate element can be used in lieu of the ATM Access Line element if the customer has an alternative Telephone Company-approved means of access to the ATM Network (such as TransLink or through a Telephone Company provided ICB arrangement).
- F. Gateway Service - This service allows the Telephone Company ATM customers to interconnect to another ATM or FRS Network. The service is available wherever the Telephone Company has established a network interface with another private or public ATM or Frame Relay network. The charge for this service covers the facility from the Telephone Company ATM port to the interconnecting ATM or Frame Relay point of another company. The charge includes the software defined PVC to the other company's network to the UNI port, but does not include the UNI port provided by the other company. Gateway Service is purchased in increments of IR. The customer accomplishes this by ordering PVCs and Gateway Service connections to the other company's ATM or Frame Relay Network.

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VII. Service Components (Continued)

- G. IR and PVC - A monthly rate applies for each PVC based on the IR requested by the customer. If no IR is indicated, the IR will be set at the default of 50% of the associated ATM UNI Port. A nonrecurring charge applies for the establishment of each PVC and for each subsequent order of PVC(s). A separate rate is established for PVCs that are intraLATA and for PVCs that are interLATA.

Customers may select from three different Categories of Service (or QoS) for PVCs to ensure greater reliability for mission-critical applications in the event of network congestion:

Lowest Priority – Unspecified Bit Rate (UBR)
Higher Priority – Variable Bit Rate-non-real time (VBR-nrt)
Highest Priority – Constant Bit Rate (CBR)

This flexibility helps to ensure maximum performance and satisfaction for individual customer communications applications.

- H. Nonrecurring Charge (NRC) - A one-time charge for initial installation and installation of functions and features.

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PRIVATE LINE SERVICE TARIFF

ATM SERVICE

VIII. Rates and Charges

A. ATM Access Line (ATM-AL) (includes Access Line and Port)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1.544 Mbps (DS1 UNI)			
Month to month	PUNIDS1(MTM)	\$ 525.00	\$ 700.00
12-23 months	PUNIDS1(1YR)	475.00	700.00
24-35 months	PUNIDS1(2YR)	450.00	700.00
36-59 months	PUNIDS1(3YR)	420.00	0.00
60-84 months	PUNIDS1(5YR)	395.00	0.00
*3 Mbps (2xDS1 UNI)			
Month to month	PUNI2DS(MTM)	890.00	800.00
12-23 months	PUNI2DS(1YR)	800.00	800.00
24-35 months	PUNI2DS(2YR)	760.00	800.00
36-59 months	PUNI2DS(3YR)	715.00	0.00
60-84 months	PUNI2DS(5YR)	670.00	0.00
*6 Mbps (4xDS1 UNI)			
Month to month	PUNI4DS(MTM)	1,835.00	900.00
12-23 months	PUNI4DS(1YR)	1,655.00	900.00
24-35 months	PUNI4DS(2YR)	1,560.00	900.00
36-59 months	PUNI4DS(3YR)	1,470.00	0.00
60-84 months	PUNI4DS(5YR)	1,380.00	0.00
*9 Mbps (6xDS1 UNI)			
Month to month	PUNI6DS(MTM)	2,625.00	1,000.00
12-23 months	PUNI6DS(1YR)	2,360.00	1,000.00
24-35 months	PUNI6DS(2YR)	2,230.00	1,000.00
36-59 months	PUNI6DS(3YR)	2,100.00	0.00
60-84 months	PUNI6DS(5YR)	1,970.00	0.00

* Where facilities are available

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VIII. Rates and Charges (Continued)

A. ATM Access Line (ATM-AL) (includes Access Line and Port) (Continued)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
*45 Mbps (DS3 UNI) Telephone Company Provided Fiber Optic Terminal			
Month to month			
0-3 miles	PUN3D03(MTM)	\$4,460.00	\$2,500.00
Over 3 miles	PUN3DG3(MTM)	5,800.00	2,500.00
12-23 months			
0-3 miles	PUN3D03(1YR)	4,020.00	2,500.00
Over 3 miles	PUN3DG3(1YR)	5,220.00	2,500.00
24-35 months			
0-3 miles	PUN3D03(2YR)	3,795.00	2,500.00
Over 3 miles	PUN3DG3(2YR)	4,930.00	2,500.00
36-59 months			
0-3 miles	PUN3D03(3YR)	3,570.00	0.00
Over 3 miles	PUN3DG3(3YR)	4,640.00	0.00
60-84 months			
0-3 miles	PUN3D03(5YR)	3,345.00	0.00
Over 3 miles	PUN3DG3(5YR)	4,350.00	0.00

* Where facilities are available

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ATM SERVICE

VIII. Rates and Charges (Continued)

A. ATM Access Line (ATM-AL) (includes Access Line and Port) (Continued)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
*155 Mbps (OC3 UNI) Customer Provided Fiber Optic Terminal			
Month to month			
0-3 miles	PUNOC03(MTM)	\$7,810.00	\$3,000.00
Over 3 miles	PUNOCG3(MTM)	9,865.00	3,000.00
12-23 months			
0-3 miles	PUNOC03(1YR)	7,025.00	3,000.00
Over 3 miles	PUNOCG3(1YR)	8,875.00	3,000.00
24-35 months			
0-3 miles	PUNOC03(2YR)	6,245.00	3,000.00
Over 3 miles	PUNOCG3(2YR)	7,890.00	3,000.00
36-59 months			
0-3 miles	PUNOC03(3YR)	5,855.00	0.00
Over 3 miles	PUNOCG3(3YR)	7,395.00	0.00
60-84 months			
0-3 miles	PUNOC03(5YR)	5,465.00	0.00
Over 3 miles	PUNOCG3(5YR)	6,905.00	0.00
*155 Mbps (OC3 UNI) Telephone Company Provided Fiber Optic Terminal			
Month to month			
0-3 miles	PUNOCS0(MTM)	10,540.00	4,000.00
Over 3 miles	PUNOCS3(MTM)	11,835.00	4,000.00
12-23 months			
0-3 miles	PUNOCS0(1YR)	9,485.00	4,000.00
Over 3 miles	PUNOCS3(1YR)	10,650.00	4,000.00
24-35 months			
0-3 miles	PUNOCS0(2YR)	8,435.00	4,000.00
Over 3 miles	PUNOCS3(2YR)	9,465.00	4,000.00
36-59 months			
0-3 miles	PUNOCS0(3YR)	7,910.00	0.00
Over 3 miles	PUNOCS3(3YR)	8,875.00	0.00
60-84 months			
0-3 miles	PUNOCS0(5YR)	7,380.00	0.00
Over 3 miles	PUNOCS3(5YR)	8,285.00	0.00

* Where facilities are available. OC3 service is available at tariff rates only from serving central offices that have an ATM switch. OC3 service is available at Individual Case Basis (ICB) rates from serving central offices that do not have an ATM switch.

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ATM SERVICE

VIII. Rates and Charges (Continued)

- B. ATM Additional Access Line (ATM-AAL) on the same Fiber Optic Terminal and the same route.

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
*45 Mbps (DS3 UNI)			
Month to month	PUNIXDS(MTM)	\$3,790.00	\$1,500.00
12-23 months	PUNIXDS(1YR)	3,415.00	1,500.00
24-35 months	PUNIXDS(2YR)	3,035.00	1,500.00
36-59 months	PUNIXDS(3YR)	2,845.00	0.00
60-84 months	PUNIXDS(5YR)	2,655.00	0.00
**155 Mbps (OC3 UNI) Customer Provided Fiber Optic Terminal			
Month to month	PUNIXOC(MTM)	7,030.00	2,500.00
12-23 months	PUNIXOC(1YR)	6,325.00	2,500.00
24-35 months	PUNIXOC(2YR)	5,625.00	2,500.00
36-59 months	PUNIXOC(3YR)	5,270.00	0.00
60-84 months	PUNIXOC(5YR)	4,920.00	0.00
**155 Mbps (OC3 UNI) Telephone Company Provided Fiber Optic Terminal			
Month to month	PUNIAOC(MTM)	9,485.00	3,500.00
12-23 months	PUNIAOC(1YR)	8,535.00	3,500.00
24-35 months	PUNIAOC(2YR)	7,590.00	3,500.00
36-59 months	PUNIAOC(3YR)	7,115.00	0.00
60-84 months	PUNIAOC(5YR)	6,640.00	0.00

* Where facilities are available

** Where facilities are available. OC3 service is available at tariff rates only from serving central offices that have an ATM switch. OC3 service is available at Individual Case Basis (ICB) rates from serving central offices that do not have an ATM switch.

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EXHIBIT A

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P.U.C.O. NO. 1
PRIVATE LINE SERVICE TARIFF

ATM SERVICE

VIII. Rates and Charges (Continued)

C. ATM Port (Port Only)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1.544 Mbps (DS1 UNI)			
Month to month	PUNPDS1(MTM)	\$ 445.00	\$ 400.00
12-23 months	PUNPDS1(1YR)	400.00	400.00
24-35 months	PUNPDS1(2YR)	355.00	400.00
36-59 months	PUNPDS1(3YR)	335.00	0.00
60-84 months	PUNPDS1(5YR)	315.00	0.00
*3 Mbps (2xDS1 UNI)			
Month to month	PUNP2DS(MTM)	715.00	500.00
12-23 months	PUNP2DS(1YR)	645.00	500.00
24-35 months	PUNP2DS(2YR)	570.00	500.00
36-59 months	PUNP2DS(3YR)	535.00	0.00
60-84 months	PUNP2DS(5YR)	500.00	0.00
*6 Mbps (4xDS1 UNI)			
Month to month	PUNP4DS(MTM)	1,520.00	600.00
12-23 months	PUNP4DS(1YR)	1,370.00	600.00
24-35 months	PUNP4DS(2YR)	1,215.00	600.00
36-59 months	PUNP4DS(3YR)	1,140.00	0.00
60-84 months	PUNP4DS(5YR)	1,065.00	0.00
*9 Mbps (6xDS1 UNI)			
Month to month	PUNP6DS(MTM)	2,230.00	700.00
12-23 months	PUNP6DS(1YR)	2,010.00	700.00
24-35 months	PUNP6DS(2YR)	1,785.00	700.00
36-59 months	PUNP6DS(3YR)	1,675.00	0.00
60-84 months	PUNP6DS(5YR)	1,560.00	0.00
45 Mbps (DS3 UNI)			
Month to month	PUN3DCO(MTM)	3,570.00	1,500.00
12-23 months	PUN3DCO(1YR)	3,215.00	1,500.00
24-35 months	PUN3DCO(2YR)	2,855.00	1,500.00
36-59 months	PUN3DCO(3YR)	2,675.00	0.00
60-84 months	PUN3DCO(5YR)	2,495.00	0.00
155 Mbps (OC3 UNI)			
Month to month	PUNOCCO(MTM)	5,860.00	2,000.00
12-23 months	PUNOCCO(1YR)	5,270.00	2,000.00
24-35 months	PUNOCCO(2YR)	4,685.00	2,000.00
36-59 months	PUNOCCO(3YR)	4,390.00	0.00
60-84 months	PUNOCCO(5YR)	4,100.00	0.00

* Where facilities are available

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PRIVATE LINE SERVICE TARIFF

ATM SERVICE

VIII. Rates and Charges (Continued)

D. Permanent Virtual Circuit (PVC) – IntraLATA

	<u>SAE Code</u>	<u>Monthly Rate (Per Increment)</u>	<u>Nonrecurring Charge (Per PVC)</u>
Over 0 thru 2.944 Mbps (Per increments of 64 Kbps)			
CBR	PUNPVCK(RBC)	\$ 8.00	\$50.00
VBR-nrt	PUNPVCK(VBR)	6.00	50.00
Over 2.944 Mbps (Per increments of 1 Mbps)			
CBR	PUNPVCM(RBC)	50.00	50.00
VBR-nrt	PUNPVCM(VBR)	40.00	50.00
	<u>SAE Code</u>	<u>Monthly Rate Per Connection)</u>	<u>Nonrecurring Charge Per Connection)</u>
UBR			
Per DS1 Connection	PUNPVCM(DS1)	\$ 45.00	\$50.00
Per NxDS1 Conn.	PUNPVCM(IMA)	65.00	50.00
Per DS3 Connection	PUNPVCM(DS3)	485.00	50.00
Per OC3 Connection	PUNPVCM(OC3)	775.00	50.00

E. Permanent Virtual Circuit (PVC) – InterLATA

	<u>SAE Code</u>	<u>Monthly Rate (Per Increment)</u>	<u>Nonrecurring Charge (Per PVC)</u>
Over 0 thru 2.944 Mbps (Per increments of 64 Kbps)			
CBR	PUNPVIK(RBC)	\$ 16.00	\$50.00
VBR-nrt	PUNPVIK(VBR)	8.00	50.00
Over 2.944 Mbps (Per increments of 1 Mbps)			
CBR	PUNPVIM(RBC)	60.00	50.00
VBR-nrt	PUNPVIM(VBR)	45.00	50.00
	<u>SAE Code</u>	<u>Monthly Rate Per Connection)</u>	<u>Nonrecurring Charge Per Connection)</u>
UBR			
Per DS1 Connection	PUNPVIM(DS1)	\$ 45.00	\$50.00
Per NxDS1 Conn.	PUNPVIM(IMA)	65.00	50.00
Per DS3 Connection	PUNPVIM(DS3)	495.00	50.00
Per OC3 Connection	PUNPVIM(OC3)	930.00	50.00

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PRIVATE LINE SERVICE TARIFF

ATM SERVICE

VIII. Rates and Charges (Continued)

F. ATM Network Link (ATM-NL)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
*1.544 Mbps ATM-NL			
Month to month	PUNPNL1(MTM)	\$ 470.00	\$375.00
12-23 months	PUNPNL1(1YR)	445.00	375.00
24-35 months	PUNPNL1(2YR)	415.00	375.00
36-59 months	PUNPNL1(3YR)	350.00	375.00
60-84 months	PUNPNL1(5YR)	300.00	375.00
*45 Mbps ATM-NL Within CO			
Month to month	PUNPNLC(MTM)	1,650.00	375.00
12-23 months	PUNPNLC(1YR)	1,600.00	375.00
24-35 months	PUNPNLC(2YR)	1,470.00	375.00
36-59 months	PUNPNLC(3YR)	1,330.00	375.00
60-84 months	PUNPNLC(5YR)	1,150.00	375.00
*45 Mbps ATM-NL 0-3 miles			
Month to month	PUNPNL3(MTM)	1,850.00	375.00
12-23 months	PUNPNL3(1YR)	1,730.00	375.00
24-35 months	PUNPNL3(2YR)	1,600.00	375.00
36-59 months	PUNPNL3(3YR)	1,500.00	375.00
60-84 months	PUNPNL3(5YR)	1,350.00	375.00
*45 Mbps ATM-NL Over 3 miles			
Month to month	PUNPNLG(MTM)	2,550.00	375.00
12-23 months	PUNPNLG(1YR)	2,480.00	375.00
24-35 months	PUNPNLG(2YR)	2,300.00	375.00
36-59 months	PUNPNLG(3YR)	2,040.00	375.00
60-84 months	PUNPNLG(5YR)	1,750.00	375.00

- G. An administrative charge will be applied, in addition to the applicable charges associated with Service Connections, Changes and Moves, as specified in Section 4 of United Telephone Company's General Exchange Tariff, when a change is made to a customer's ATM configuration (including changes to an existing group's addressing or changes in bandwidth), at the customer's request. Such changes are defined as those rearrangements necessary to add, delete or rearrange the customer's configuration and changes of the PCR, SCR on a PVC. The administrative charge applies to changes in a customer's network associated with PVCs. Only one administrative charge applies per customer request.

Administrative Charge (Nonrecurring) \$75.00

* Where facilities are available

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ATM SERVICE

VIII. Rates and Charges (Continued)

H. Gateway Service, Permanent Virtual Circuit (PVC) – IntraLATA

	<u>SAE Code</u>	<u>Monthly Rate (Per Increment)</u>	<u>Nonrecurring Charge (Per PVC)</u>
Over 0 thru 2.944 Mbps (Per increments of 64 Kbps)			
CBR	PUNIGWK(RBC)	\$16.00	\$100.00
VBR-nrt	PUNIGWK(VBR)	8.00	100.00
Over 2.944 Mbps (Per increments of 1 Mbps)			
CBR	PUNIGWM(RBC)	60.00	100.00
VBR-nrt	PUNIGWM(VBR)	45.00	100.00
	<u>SAE Code</u>	<u>Monthly Rate (Per Connection)</u>	<u>Nonrecurring Charge (Per Connection)</u>
UBR			
Per DS1 Connection	PUNIGWM(DS1)	\$ 45.00	\$50.00
Per NxDS1 Conn.	PUNIGWM(IMA)	65.00	50.00
Per DS3 Connection	PUNIGWM(DS3)	495.00	50.00
Per OC3 Connection	PUNIGWM(OC3)	930.00	50.00

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(D)

SPECIAL PROMOTIONS

Beginning March 16, 2001 and continuing through March 30, 2001, the Telephone Company will hold a special promotion for business customers. With this promotion the Telephone company will waive the non-recurring installation charge for customers who subscribe to Frame Relay Utilization Reports.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

OPTIPOINT SERVICE

I. REGULATIONS

A. Description of Service

OptiPoint Service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Each of the components of the service is described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Labor Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

OptiPoint Service provides point-to-point high speed synchronous optical fiber-based full duplex data transmission capabilities for intraLATA intraexchange and interexchange communications. There are two levels of OptiPoint Service: OptiPoint-3 (OC3) is provided at a terminating bit rate of 155.52 Mbps; and OptiPoint-12 (OC12) is provided at a terminating bit rate of 622.08 Mbps.

OptiPoint Service is provided for periods of one, three, or five years. When a customer orders OptiPoint Service, the customer and the Company will work cooperatively to plan, engineer, provision and manage OptiPoint Service.

The required format and interface specifications are contained in Technical Reference Publication GR-253.

1. Channel Termination

OptiPoint Service Channel Terminations may be used to connect the following:

- a customer designated premises to another customer designated premises, configured at wire center locations between the two premises; or
- a customer designated premises to a Company location where service configuration is performed.

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

- 1) OC3 - three Synchronous Transport Signals (STS1) channels which each contain the following:
 - one DS3 that is STS1 mapped;
 - up to 28 DS1s that are VT mapped;
 - an STS1 channel without constraint to payload mapping when the STS1 channel does not terminate via a service configuration function to DS1 or DS3 services within the network; or

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OPTIPOINT SERVICE

- I. REGULATIONS **(Continued)** (T)
- A. Description of Service **(Continued)** (T)
1. Channel Termination **(Continued)** (T)
- a. (Continued)
- 2) A single concatenated OC3c channel that is STS3c mapped.
- b. Based on customer requirements, OC12 service may be provisioned in the following configurations:
- 1) OC12 - twelve STS1 channels which each contain:
- one DS3 that is STS1 mapped;
 - up to 28 DS1s that are VT mapped;
 - an STS1 channel without constraint to payload mapping when the STS1 channel does not terminate via a service configuration function to DS1 or DS3 services within the network;
- 2) Up to four concatenated OC3c channels that are STS3c mapped;
- 3) From one to three OC3c channels that are STS3c mapped and mixed with from three to nine STS1 channels subject to utilization of the total OC12 capacity; or
- 4) A single concatenated OC12c channel that is STS12c mapped.

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OPTIPOINT SERVICE

- I. REGULATIONS **(Continued)** (T)
- A. Description of Service **(Continued)** (T)
- 1. Channel Termination **(Continued)** (T)

Current SONET standards do not provide for asynchronous DS3 to DS1 multiplexing. An STS1 channel may be mapped for either one DS3 or 28 DS1s. However, DS1s within a DS3 are not accessible within the SONET architecture, and their performance cannot be guaranteed for this reason. When the customer requests that an OC3 or OC12 service be configured with a combination of DS3 and DS1 channels, a DS3 to DS1 multiplexing arrangement, will be required as set forth in Section 1.F.D.9 of this tariff.

Upon ordering OptiPoint Service, the customer is responsible for identifying the STS signal configuration to be contained in each OC3 or OC12 service connection and each STS1, STS3, and/or STS12 payload content. This information is used in determining the route and connection in the network. If a new configuration is requested subsequent to the initial activation, a service reconfiguration charge will apply on a per service basis, as set forth in VIII.B. following. The service reconfiguration charge is in addition to all applicable configuration card charges associated with the new configuration.

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

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

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OPTIPOINT SERVICE

- I. REGULATIONS **(Continued)** (T)
- A. Description of Service **(Continued)** (T)
- 1. Channel Termination **(Continued)** (T)

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

OptiPoint Channel Terminations are available only where facilities and operating conditions permit. The Company will work cooperatively with the customer to determine if suitable existing Company SONET based facilities are available to provide the service. The Company will not provision this service on facilities which are not suitable for OptiPoint. Where facilities and/or operating conditions do not permit the provision of OptiPoint Service, and the customer desires the Company to provision OptiPoint Service, Special Types of Construction or Facilities, as set forth in Section 5 of the Ohio General Exchange Tariff P.U.C.O. No. 5, may apply.

Channel mileage can be connected between serving wire centers at a lower OC-n speed than the Channel Termination, if the channel mileage is between a lower speed configuration function and one of the following:

- another lower speed configuration function; another lower speed Channel Termination; or

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

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OPTIPOINT SERVICE

I. REGULATIONS **(Continued)**

(T)

A. Description of Service **(Continued)**

(T)

2. Service Configuration

Configuration Card - provides for the interface at which a channelized or lower speed service terminates or originates from an OptiPoint optical line terminated at a customer designated premises or a Company central office. DS1, DS3, and OC3 concatenated cards are available for interfacing OptiPoint-3 service with lower level signals. DS1, DS3, OC3, OC3 concatenated, and OC12 concatenated cards are available for interfacing with OptiPoint-12 service.

Whenever a customer requests their OptiPoint Service to be configured for lower level service, card rate elements will apply. Configuration Cards will be required based upon the characteristics of the OptiPoint Service. Monthly rates for the Configuration Cards are set forth in VII.C. following.

Due to the technical limitations of SONET facilities, additional regeneration equipment may be required for essential detection and retransmission of SONET signals between the customer's premises and the Company serving wire center for that premises. Additional regeneration equipment will only be provided by the Company when the actual fiber facility distance between the customer's premises and serving wire center exceeds SONET design limits. A monthly recurring OptiPoint Regeneration Charge, as set forth in VII.D. following, will apply for each regenerator required for the provision of OptiPoint Service.

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OPTIPOINT SERVICE

I. REGULATIONS **(Continued)** (T)

A. Description of Service **(Continued)** (T)

3. Multipoint service is not available with OptiPoint Service.
4. A Channel Service Unit (CSU) or appropriate termination equipment provided by the customer is required at a customer's or authorized user's premises to perform such functions as:
 - proper termination of the service
 - amplification
 - signal shaping
 - remote loop-back
5. The design, maintenance and operation of OptiPoint Service contemplates communications originating and terminating as (1) a customer premises to customer premises channel via the Company's Serving Wire Center and/or through remote Serving Wire Centers; (2) a customer premises to the Serving Wire Center and/or remote Serving Wire Centers - partial channel (link); or (3) a central office to central office (interoffice) partial channel (link).
6. Unless specified following, the regulations for OptiPoint Service specified herein apply in addition to the regulations set forth in other sections of this tariff.
7. Temporary Suspension of Service (Vacation Service) at the customer's request, as defined in Section 20 of the Ohio General Exchange Tariff P.U.C.O. No. 5, is not allowed.

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OPTIPOINT SERVICE

I. REGULATIONS **(Continued)**

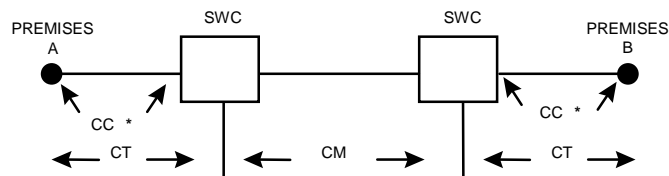
(T)

A. Description of Service **(Continued)**

(T)

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

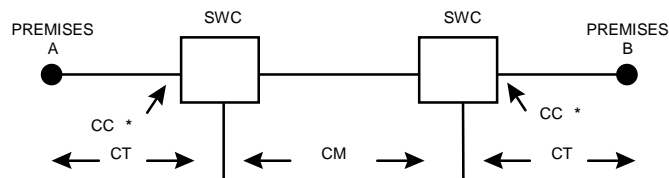
(a) OptiPoint Service with Company Provided
Terminal Equipment at the Customer Premises



CT - Channel Termination
CM - Channel Mileage
SWC - Serving Wire Center
CC - Configuration Cards

* WHERE APPLICABLE

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



CT - Channel Termination
CM - Channel Mileage
SWC - Serving Wire Center
CC - Configuration Cards

* WHERE APPLICABLE

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OPTIPOINT SERVICE

I. REGULATIONS (**Continued**)

(T)

B. Definitions

1. Channel Mileage - Channel Mileage provides for the end office equipment and the transmission channel between the Serving Wire Centers associated with two customer designated premises. Channel Mileage is comprised of Channel Mileage Facility (per mile) and Channel Mileage Termination (fixed) rates.
 - a. Channel Mileage Facility (Per Mile) - The Channel Mileage Facility (per mile) recovers the cost for the transmission path that extends between the Company Serving Wire Centers and includes primarily outside plant used to provide the facility.
 - b. Channel Mileage Termination (Fixed) - Channel Mileage Termination (fixed) recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at Serving Wire Centers).
2. Channel Service Unit (CSU) - The term "Channel Service Unit (CSU)" denotes equipment provided by the customer to terminate a digital facility on the customer's premises.
3. Channel Termination - The local facility from the customer's designated premises to the Serving Wire Center.
4. OC3 - This denotes a channel service expressed in terms of optical line rates in accordance with North American standards for synchronous optical networks. It has a 155.52 Mbps transmission data rate.
5. OC12 - This denotes a channel service expressed in terms of optical line rates in accordance with North American standards for synchronous optical networks. It has a 622.08 Mbps transmission data rate.
6. Nonrecurring Charge - A one-time charge for the initial installation, the installation of functions and features and service rearrangements.
7. Serving Wire Center - The local telephone central office assigned to subscribers in a predetermined geographic area.

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OPTIPOINT SERVICE

I. REGULATIONS **(Continued)**

(T)

C. Connections

1. Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems may be connected to OptiPoint Service when such connection is made in accordance with the provisions specified in 2., 3. and 4. following.
2. Responsibility of the Company
 - a. The responsibility of the Company shall be limited to the furnishing and maintenance of OptiPoint Service to a network interface on the customer's premises where provision is made for the connection of local service.
 - b. The Company shall not be responsible for installation, operation or maintenance of any terminal equipment or communications systems provided by the customer. OptiPoint Service is not represented as adapted for the use of such equipment or system. Where such equipment or system is connected to Company facilities, the responsibility of the Company shall be limited to the furnishing of facilities suitable for OptiPoint Service and to the maintenance and operation in a manner proper for such digital service. The Company shall not be responsible for:
 - The through transmission of signals generated by such equipment or system, or for the quality of, or defects in, such transmission, or
 - The reception of signals by such equipment or systems, or
 - Damage to terminal equipment or communications systems provided by a customer or authorized user due to testing.
 - c. The Company shall not be responsible to the customer if changes in any of the facilities, operations or procedures of the Company utilized in the provision of OptiPoint Service render any facilities or equipment provided by a customer obsolete, or require modification or alteration of such equipment or system or otherwise affects its use or performance.

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OPTIPOINT SERVICE

- I. REGULATIONS **(Continued)** (T)
 - C. Connections **(Continued)** (T)
 - 2. Responsibility of the Company **(Continued)** (T)
 - d. The Company is responsible for maintaining and repairing the facilities it furnishes. The customer may not rearrange, disconnect, remove or attempt to repair any equipment installed by the Company without prior written consent of the Company.
 - e. In order to maintain the quality of OptiPoint Service, the Company reserves the right to perform preventative maintenance and software updates to the network. The Company has classified maintenance as follows:
 - 1) Scheduled Maintenance

Scheduled maintenance is performed for functions such as hardware and software upgrades and network optimization. The Company will perform these tasks in a maintenance window that is anticipated to minimize disruption of customer service and activity. The Company will provide advance notice of all scheduled maintenance.
 - 2) Demand Maintenance

Demand maintenance may occur as a result of unexpected events and is performed when OptiPoint Service network elements are in jeopardy. The Company will perform this type of maintenance at its discretion. Due to the nature of demand maintenance, prior notification may not be possible; however, the customer will be informed when the maintenance has been completed.
 - 3) Responsibility of the Customer
 - a. The customer is responsible for installing and testing the customer premises equipment or facilities to insure that when they are connected to OptiPoint Service such equipment or facilities are operating properly.

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OPTIPOINT SERVICE

- I. REGULATIONS **(Continued)** (T)
 - C. Connections **(Continued)** (T)
 - 3. Responsibility of the Customer **(Continued)** (T)
 - b. The operating characteristics of the customer premises equipment or facilities shall be such as to not interfere with any of the services offered by the Company. Such use is subject to the further provisions that the equipment provided by a customer does not: endanger the safety of Company employees or the public; damage, require change in or alteration of the equipment or other facilities of the Company; interfere with the proper functioning of such equipment or facilities; impair the operation of the Company's facilities or otherwise injure the public in its use of the Company's services. Upon notice that the equipment provided by a customer is causing or is likely to cause such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.
 - c. The customer's responsibility shall include cooperative testing with the Company as may be necessary. Where regeneration and/or equalization adjustments or changes may be required to compensate for rearrangements and/or changes in outside plant facilities, the customer will be responsible for all expenses incurred in changes to his customer premises equipment.
 - 4. Connection of Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems
 - a. The following provisions will apply:
 - 1) Customer-Provided Terminal Equipment and/or Customer-Provided Communications Systems may be connected at the premises of the customer to OptiPoint Service.
 - 2) The customers, by use of their own derivation equipment, may create digital bit streams from OptiPoint Service and such equipment may be connected for transmission of such bit streams when connected through a customer-provided CSU.
 - 3) The undertaking of the Company is to furnish OptiPoint Service as ordered and specified by the customer except as specified in d. following.

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OPTIPOINT SERVICE

- I. REGULATIONS **(Continued)** (T)
 - C. Connections **(Continued)** (T)
 - 4. Connection of Customer-Provided ... **(Continued)** (T)
 - b. Connections to Other Services Furnished by the Company to the Same Customer

OptiPoint Service furnished by the Company may be connected by the customer to another service or to other services furnished by the Company as specified in 2. preceding. Connected services are subject to all rules and regulations governing the provisioning of those services.
 - c. Connections to Other Services Furnished by the Company to Different Customers

The customer may connect at the premises of the customer, to another OptiPoint Service or other services furnished by the Company to different customers as specified in 2. preceding. Connected services are subject to all rules and regulations governing provisioning of those services.
 - d. Connection of Channel Service Units

A Channel Service Unit (CSU) or appropriate termination equipment must be provided by the customer to connect a Company-provided digital facility. This equipment must comply with the technical requirements outlined in Part 68 of the FCC Rules and Regulations.
 - e. The customer shall be responsible for payment of a Maintenance of Service Charge, as set forth in Section 11 of the Ohio General Exchange Tariff P.U.C.O. No. 5, for visits by the Company to the customer's premises where the service difficulty or trouble report results from the use of equipment or facilities provided by the customers.
 - f. The customer may not rearrange, disconnect, remove or attempt to repair any equipment installed by the Company without the prior written consent of the Company.
 - g. For maintenance purposes, upon request of the Company, the customer will be responsible for notifying the Company of the type of digital terminating equipment used.

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OPTIPOINT SERVICE

II. TERM PLAN

- A. The minimum service period is one year. A term plan provides the customer with discounted rates for OptiPoint Service. OptiPoint Service may be ordered under a term plan for fixed periods of one year, three years, or five years. All rate elements within the same OptiPoint Service facility must be ordered under the same commitment period. The customer must order the term plan in writing to the Company.
- B. The customer must specify the length of the initial service period at the time the service is ordered.
- C. At the end of the term plan the customer may subscribe to a new term plan at the prevailing rates set forth in VII. following. If the customer does not specify renewal terms in writing 90 days prior to the expiration of the three or five year service period, the commitment period and OptiPoint Service rates for the one year term will automatically be applied. If the customer does not specify renewal terms in writing prior to the expiration of the one year service period, the commitment period and the OptiPoint Service rates in effect at the time of expiration will automatically renew. The customer can terminate OptiPoint Service at the end of the minimum commitment period with no penalty or obligation to continue the service.
- D. Rate increases or decreases will automatically be applied to the monthly term plan rates for the remaining term of the term plan. If Company initiated rate increases to any rate element or combination of rate elements causes the charges for the entire OptiPoint Service under the term plan to increase by 10% or more annually, then the customer may cancel the term plan without incurring termination liability charges provided the customer notifies the Company within 30 days after the effective date of the rate increase.
- E. The customer can extend term plan commitment periods at any time during the term of the plan, up to a maximum of five years. The number of remaining months in the original term plan will become part of the total term in the new term plan.

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OPTIPOINT SERVICE

III. TERMINATION LIABILITY CHARGES

- A. If a customer under a term plan disconnects all or a portion of OptiPoint Service prior to the expiration of the term plan, then a Termination Liability Charge will apply to those services that are disconnected. The Termination Liability Charge will be a one-time charge equal to sum of 50% of the payments remaining for the rest of the term plan.
- B. Customers may move Channel Terminations and not be subject to Termination Liability Charges providing the terms of the term plan are maintained. If charges as specified in VI.A. following were applied to the service being terminated or moved, any termination or move charges associated with that construction apply, as well as any construction charges at the new location.
- C. Termination Liability Charges will not apply when a service or rate element under a term plan is disconnected prior to the expiration of a selected service period as a result of a change in tariff jurisdiction and/or a customer requested upgrade to a next generation service offering, under the following conditions:
 - 1. equal to or exceeding the remaining service period of the disconnected term plan, and
 - 2. The service orders to install the new service and disconnect the old service are related together, and there is no lapse in service between the installation of the new service and the disconnection of the old service, and
 - 3. The service orders to install the new service and disconnect the old service are for the same customer at the same location.
- D. The Company will determine whether the replacement service qualifies as a next generation service offering.
- E. Nonrecurring charges and Service Connection Charges for the new service will apply according to the requirements of the new service.
- F. Commission approval of the above termination liability language is not intended to indicate that the Commission has approved or sanctioned any terms or provisions contained therein. Signatories to such contracts shall be free to pursue whatever legal remedies they may have should a dispute arise.

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OPTIPOINT SERVICE

IV. MONTHLY RATE CATEGORIES

There are three monthly rate categories which apply to OptiPoint Service:

- Channel Termination
- Channel Mileage
- Configuration Cards

A. Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the Serving Wire Center. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the service is to be connected at the point of termination (POT) and the type of signaling capability if any. The signaling capability itself is provided as a part of this rate category. One Channel Termination charge applies per customer designated premises at which the channel is terminated. The charges applicable to the Channel Termination vary based on distance, as set forth in VII.A. following.

B. Channel Mileage

The Channel Mileage rate category provides for the end office equipment and the transmission channel between the Serving Wire Centers associated with two customer designated premises. Channel Mileage rates are made up of the Channel Mileage Facility (per mile) rate and the Channel Mileage Termination (fixed) rate. Channel Mileage charges are set forth in VII.B.

1. Channel Mileage Facility (Per Mile)

The Channel Mileage Facility (per mile) rate recovers the cost for the transmission path, which extends between the Company Serving Wire Centers and includes primarily outside plant used to provide the facility.

2. Channel Mileage Termination (Fixed)

The Channel Mileage Termination (fixed) rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at Serving Wire Centers). The Company applies a 50% billing percentage to the channel mileage fixed rate on jointly owned circuits, and applies 100% on wholly owned circuits. It is the customer's responsibility to contact the connecting company and to pay the applicable rates for the other 50% of the circuit. When the Channel Mileage Facility (per mile) is zero (i.e., collocated Serving Wire Centers), neither the Channel Mileage Facility (per mile) rate nor the Channel Mileage Termination (fixed) rate will apply.

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OPTIPOINT SERVICE

IV. MONTHLY RATE CATEGORIES (Continued)

C. Configuration Card

Configuration Card provides for the interface at which a channelized or lower speed service terminates or originates from an OptiPoint optical line terminated at a customer designated premises or a Company central office. DS1, DS3, and OC3 concatenated cards are available for interfacing OptiPoint-3 service with lower level signals. DS1, DS3, OC3, OC3 concatenated, and OC12 concatenated cards are available for interfacing with OptiPoint-12 service. The charges applicable to Configuration Cards are set forth in VII.C. following.

D. OptiPoint Regeneration Charge

An OptiPoint Regeneration Charge will be required when the actual fiber facility distance between the customer's premises and serving wire center exceeds SONET design limits. A monthly recurring OptiPoint Regeneration Charge, as set forth in VII.D. following, will apply for each regenerator required for the provision of OptiPoint Service.

E. Multiplexed Service Connection

A Multiplexed Service Connection is an arrangement that allows one DS1, DS3, OC3, or OC12 channel of a multiplexed Company service to be connected to one DS1, DS3, OC3, or OC12 channel with like signaling of another Company service. For example, the lesser speed may be a LightLink DS3 channel connected between a multiplexed OptiPoint Service. A Multiplexed Service Connection will be provided at all Company locations where Central Office Multiplexing is performed. The charges applicable to the Multiplexed Service Connection are set forth in VII.E. following.

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OPTIPOINT SERVICE

V. NONRECURRING CHARGE CATEGORIES

A. OptiPoint- Reconfiguration Charge

If a new configuration is requested subsequent to the initial activation, a OptiPoint Reconfiguration Charge will apply on a per service basis, as set forth in VIII.A. following. The OptiPoint Reconfiguration Charge is in addition to all applicable Configuration Card charges associated with the new configuration.

B. Optical Service Rearrangements

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer designated premises. Changes in the type of service or service termination are treated as disconnects and starts.

For service rearrangements involving OC3 or OC12 OptiPoint Service, a charge equal to one half the Optical Service Charge set forth VIII.B. will apply for each node rearranged.

C. Special Types of Construction or Facilities

Charges applicable under Special Types of Construction or Facilities, as set forth in Section 5 of the Ohio General Exchange Tariff P.U.C.O. No. 5, may apply where facilities and/or operating conditions do not permit the provision of OptiPoint Service and the customer desires the Company to provision the OptiPoint Service.

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OPTIPOINT SERVICE

VI. APPLICATION OF RATES

- A. The rates specified for OptiPoint Service in VII following contemplate the provision of a digital quality facility utilizing existing interoffice carrier equipment and/or exchange fiber facilities compatible with this service. If equipment, new facilities or changes to existing facilities are required for the provision of this service, then charges as specified in Section 5, of the Ohio General Exchange Tariff P.U.C.O. No. 5, will apply in addition to the rates for OptiPoint Service.
- B. Each OptiPoint Service facility may be comprised of one or two Channel Terminations. Where both customer premises are served by the same Serving Wire Center, the service will consist of two Channel Terminations. Where each customer premises is served by different Serving Wire Centers, the service will consist of two Channel Terminations, one Channel Mileage Termination (fixed) and the Channel Mileage Facility (per mile) between Serving Wire Centers. Where one customer premises is involved, the Channel Termination of a lower bandwidth service can be replaced with an OptiPoint Service Channel Termination. For example, the Channel Termination associated with LightLink Service can be replaced with an OptiPoint Service Channel Termination to connect the LightLink Service to the Serving Wire Center of the customer's designated premises.
- C. The Channel Termination rate element for OptiPoint Service will vary based on distance. The mileage used to determine the monthly rate for Channel Terminations located outside a Company central office is the airline distance between the customer's designated premises and the Company's Serving Wire Center. The mileage measurement is determined by utilizing exchange maps and mileage tables located in designated Company offices for such purposes.
- D. Intraexchange channels furnished between Company central offices will be charged at rates based on airline distance between the central offices. Interexchange channels will be charged at rates based on airline distance between Company central offices. Fractional mileage will be rounded up to the next full mile.
- E. Whenever facilities are provided jointly by the Company and another telephone company, the regulations, rates and charges of the other telephone company shall apply for the equipment and facilities furnished by the other telephone company for use in connection with OptiPoint Service. The Company applies a 50% billing percentage to the Channel Mileage Termination (fixed) rate on jointly owned circuits, and applies 100% on wholly owned circuits. It is the customer's responsibility to contact the connecting company and to pay the applicable rates for the other 50% of the circuit. When the Channel Mileage Facility (per mile) is zero (i.e., collocated Serving Wire Centers), neither the Channel Mileage Facility (per mile) rate nor the Channel Mileage Termination (fixed) rate will apply.

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OPTIPOINT SERVICE

VII. MONTHLY RATES

A. Channel Termination

- Per Point of Termination

1. OptiPoint-3 with Company Provided Terminal Equipment

	<u>Monthly Rate</u>	<u>Installation Nonrecurring Charge</u>
1 Year		
Within CO	\$2,100.00	\$7,000
0 - 3 Miles	2,800.00	7,000
Over 3 Miles	4,500.00	7,000
3 Year		
Within CO	1,890.00	N/A
0 - 3 Miles	2,520.00	N/A
Over 3 Miles	4,050.00	N/A
5 Year		
Within CO	1,680.00	N/A
0 - 3 Miles	2,240.00	N/A
Over 3 Miles	3,600.00	N/A

2. OptiPoint-12 with Company Provided Terminal Equipment

	<u>Monthly Rate</u>	<u>Installation Nonrecurring Charge</u>
1 Year		
Within CO	\$2,775.00	\$11,000
0 - 3 Miles	3,325.00	11,000
Over 3 Miles	5,200.00	11,000
3 Year		
Within CO	2,495.00	N/A
0 - 3 Miles	2,990.00	N/A
Over 3 Miles	4,680.00	N/A
5 Year		
Within CO	2,220.00	N/A
0 - 3 Miles	2,660.00	N/A
Over 3 Miles	4,160.00	N/A

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VII. MONTHLY RATES **(Continued)** (T)

A. Channel Termination **(Continued)** (T)

- Per Point of Termination

3. OptiPoint-3 without Company Provided Terminal Equipment

	<u>Monthly Rate</u>	<u>Installation Non-Recurring Charge</u>
1 Year		
Within CO	\$1,350.00	\$4,000
0 - 3 Miles	2,350.00	4,000
Over 3 Miles	3,975.00	4,000
3 Year		
Within CO	1,215.00	N/A
0 - 3 Miles	2,115.00	N/A
Over 3 Miles	3,580.00	N/A
5 Year		
Within CO	1,080.00	N/A
0 - 3 Miles	1,880.00	N/A
Over 3 Miles	3,180.00	N/A

4. OptiPoint-12 without Company Provided Terminal Equipment

	<u>Monthly Rate</u>	<u>Installation Non-Recurring Charge</u>
1 Year		
Within CO	\$1,640.00	\$6,000
0 - 3 Miles	2,425.00	6,000
Over 3 Miles	4,100.00	6,000
3 Year		
Within CO	1,475.00	N/A
0 - 3 Miles	2,180.00	N/A
Over 3 Miles	3,690.00	N/A
5 Year		
Within CO	1,310.00	N/A
0 - 3 Miles	1,940.00	N/A
Over 3 Miles	3,280.00	N/A

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VII. MONTHLY RATES (Continued)

(T)

B. Channel Mileage

	<u>Monthly Rate</u>
1. Termination (Fixed)	
- Per Circuit	
OptiPoint - 3	
1 Year	\$ 2,395.00
3 Year	2,155.00
5 Year	1,915.00
OptiPoint - 12	
1 Year	3,900.00
3 Year	3,700.00
5 Year	3,120.00
2. Facility (Per Mile)	
OptiPoint - 3	
1 Year	190.00
3 Year	170.00
5 Year	150.00
OptiPoint - 12	
1 Year	290.00
3 Year	260.00
5 Year	250.00

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OPTIPOINT SERVICE

VII MONTHLY RATES (Continued)

C. Configuration Card

- Per Card

Monthly Rate

1. OptiPoint - 3

DS1 Level

1 Year \$ 25.00

3 Year 20.00

5 Year 15.00

DS3 Level

1 Year 60.00

3 Year 55.00

5 Year 50.00

OC3 Concatenated

1 Year 380.00

3 Year 350.00

5 Year 310.00

2. OptiPoint – 12

DS1 Level

1 Year 25.00

3 Year 20.00

5 Year 15.00

DS3 Level

1 Year 60.00

3 Year 55.00

5 Year 50.00

OC3 Level

1 Year 175.00

3 Year 150.00

5 Year 130.00

OC3 Concatenated

1 Year 250.00

3 Year 220.00

5 Year 185.00

OC12 Concatenated

1 Year 2,700.00

3 Year 2,500.00

5 Year 2,260.00

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VII. MONTHLY RATES (Continued)

(T)

Monthly Rate

D. OptiPoint Regeneration Charges

- Per Regeneration

OC3	
1 Year	\$1,700.00
3 Year	1,500.00
5 Year	1,300.00
OC12	
1 Year	2,800.00
3 Year	2,600.00
5 Year	2,300.00

E. Multiplexed Service Connection

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
- Per DS1	\$ 10.00	\$100.00
- Per DS3	15.00	100.00
- Per OC3 and OC12	25.00	100.00

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OPTIPOINT SERVICE

VIII. NONRECURRING CHARGES

Nonrecurring Charge

- | | | |
|------|---|----------|
| A. | OptiPoint Reconfiguration Charge | |
| | - Per DS3 Equivalent | \$750.00 |
| | | |
| B. | Optical Service Charge | |
| | - Per Node | |
| OC3 | \$7,500.00 | |
| OC12 | \$8,500.00 | |
| | | |
| C. | Installation Nonrecurring Charge | |
| | The Installation Nonrecurring Charge is applicable for the initial installation of a Channel Termination to a given Serving Wire Center. | |
| | | |
| D. | Move Charges | |
| | A Move Charge applies for Channel Terminations moved to a new location, even when moved on the same premises. The Move Charge is equal to the Channel Termination Installation Nonrecurring Charge and applies in addition to the Initial Service Order Charge located in Section 4 of the Ohio General Exchange Tariff P.U.C.O. No. 5. | |
| | | |
| E. | Service Connection, Changes and Moves | |
| | An initial Service Order Charge as set forth in Section 4 of the Ohio General Exchange Tariff P.U.C.O. No. 5 is applicable per customer request. Nonrecurring Charges specified in this tariff section are in lieu of all other Service Connection Charges. | |

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SONET RING SERVICE

(T)

I. REGULATIONS

A. Description of Service

SONET Ring Service is a dedicated high capacity network (bandwidth) designed to provide the customer reliable functionality for the transmission of voice, data, and video via a self-healing ring topology between multiple customer designated locations and Company central offices. **SONET** Ring Service will only be offered using 2-fiber unidirectional path switch ring (UPSR) topology. **The SONET** Ring Service network will consist of fiber optic facilities routed through Local, Alternative Central Office, Internodal, and/or Interoffice Channel facilities that transmit DS1, DS3, OC3, OC3c, and OC12 channel services simultaneously over primary and alternative diverse paths between customer designated locations and Company central offices. Continuous monitoring of the DS1, DS3, OC3, OC3c, and/or OC12 service quality will occur. Detection of a failure within the system will result in automatic self-healing around the point of failure to ensure that the DS1, DS3, OC3, OC3c, and/or OC12 services between locations within **the SONET** Ring Service network will continue.

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SONET Ring Service provides survivable facilities and high speed synchronous optical fiber-based full duplex data transmission capabilities. There are two levels of **SONET** Ring Service: OC3 is provided at a terminating bit rate of 155.52 Mbps; and OC12 is provided at a terminating bit rate of 622.08 Mbps.

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SONET Ring Service is provided for periods of one, three, or five years. When a customer orders **SONET** Ring Service, the customer and the Company will work cooperatively to plan, engineer, provision and **manage SONET** Ring Service.

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The required format and interface specifications are contained in Technical Reference Publication GR-253.

Current SONET standards do not provide for asynchronous DS3 to DS1 multiplexing. An STS1 channel may be mapped for either one DS3 or 28 DS1s. However, DS1s within a DS3 are not accessible within the SONET architecture, and their performance cannot be guaranteed for this reason. When the customer requests that an OC3 or OC12 service be configured with a combination of DS3 and DS1 channels, a DS3 to DS1 multiplexing arrangement, as set forth in Section 1.F.D.9 will be required.

The customer **ordering SONET** Ring Service must order a minimum of two nodes, one of which must be a Customer Node and one of which must be a Central Office Node. The maximum number of nodes will be determined by the technical characteristics and capability of the ring configuration requested.

(T)

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United Telephone
Company of Ohio
d/b/a Embarq

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

SONET RING SERVICE

(T)

I. REGULATIONS (Continued)

(T)

A. Description of Service (Continued)

(T)

Customers **of** SONET Ring Service will need to provide the Company with a matrix detailing the configuration interface assignments desired among the nodes on the dedicated ring. The matrix must provide detail by node, by STS group. This matrix will assist the Company in ensuring that node to node channels are linked appropriately. Customers must provide suitable floor space, controlled environment, and source of non-switched suitable power to support the service.

(T)

1. Customer Node

Customer Nodes provide ring switching capabilities at customer designated locations other than the Company central offices that are part **of** SONET Ring Service. This rate element offers OC3 and OC12 network capacities and is provided with or without Company provided equipment. Customer Node equipment provided by the customer must be compatible with that of the Company. When a customer elects to furnish its own node equipment at the customer's premises, the Company will install a cross-connect device on the Company side of the demarcation point, allowing the customer to connect their node equipment.

(T)

2. Central Office Node

Central Office Nodes provide ring switching capabilities at Company central offices that are part **of** SONET Ring Service. This rate element offers OC3 and OC12 network capacities.

(T)

3. Configuration Card

A Configuration Card provides DS1, DS3, and OC3c electrical channelization and/or OC3 and OC12 optical channelization that may take place at each Customer or Central Office Node located **on** SONET Ring Service. The Configuration Card rate element applies for every interface capacity that originates or terminates at a Customer or Central Office Node. When the customer elects to furnish its own terminal equipment at the Customer Node, the rate for the Configuration Card at the Customer Node does not apply.

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SONET RING SERVICE

(T)

I. REGULATIONS (Continued)

(T)

A. Description of Service (Continued)

(T)

4. Local Channel

The Local Channel provides for the communications path between a Customer Node and the serving wire center of the premises where the Customer Node is located. One Local Channel rate element will apply per customer designated premises for each Local Channel terminated.

Monthly recurring rates for Local Channels apply for each air mile increment of the channel. Air mileage is measured using V&H coordinates between nodes. Fractions of an airline mile are rounded up to the next mile. The minimum charge is one airline mile except when the customer designated premises and the serving wire center are located in the same Company building, or where both customer designated premises are in the same building. In those instances, the Intraoffice Channel charge, as set forth in 8. following, will apply in lieu of the one-mile minimum Local Channel charge.

5. Alternate Central Office Channel

The Alternate Central Office Channel provides for the communications path between a Customer Node and an Alternate Central Office. The primary Central Office Node and any Alternate Central Office Node and applicable Configuration Cards must be associated with the **same SONET** Ring Service. Monthly recurring rates for Alternative Central Office Channels apply for each air mile increment of the channel. Air mileage is measured using V&H coordinates between nodes. Fractions of an airline mile are rounded up to the next mile. The minimum charge is one airline mile.

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6. Interoffice Channel

The Interoffice Channel provides for the communications path between directly connected Company Central Offices located on a **SONET** Ring Service. This rate element does not apply where Central Office Nodes are adjacently connected in the same central office on the **same SONET** Ring Service for the purposes of providing additional node capacity. Monthly recurring rates for Interoffice Channels apply for each air mile increment of the channel. Air mileage is measured using V&H coordinates between nodes. Fractions of an airline mile are rounded up to the next mile. The minimum charge is one airline mile.

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SONET RING SERVICE

(T)

I. REGULATIONS (Continued)

(T)

A. Description of Service (Continued)

(T)

7. Internodal Channel

The Internodal Channel provides for the communications path between two directly connected Customer Nodes of a **given SONET** Ring Service located (a) in the same serving wire center area, (b) in the same office park /campus environment or contiguous property located in contiguous serving wire center areas, or (c) in different serving wire center areas. Monthly recurring rates for Internodal Channels apply for each air mile increment of the channel. Air mileage is measured using V&H coordinates between nodes. Fractions of an airline mile are rounded up to the next mile. The minimum charge is one airline mile.

(T)

8. Intraoffice Channel

The Intraoffice Channel provides for the communications path when the customer designated premises and the serving wire center are located in the same Company building, or where both customer designated premises are in the same building. Flat rated monthly recurring rates apply for each Intraoffice Channel.

9. SONET Ring Service Reconfiguration Charge

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SONET Ring Service Reconfiguration Charge allows the customer to request that the Company reallocate Configuration Cards located at each Customer or Central Office Node subsequent to the initial service installation.

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If a new configuration is requested at the Customer or Central Office Node subsequent to the initial activation, a **SONET** Ring Service Reconfiguration Charge will apply on a per service basis, as set forth in VI.A. following. **The SONET** Ring Service Reconfiguration Charge is in addition to all applicable Configuration Card charges associated with the new configuration.

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10. SONET Ring Service Regeneration Charges

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Due to the technical limitations of SONET facilities, additional regeneration equipment may be required for essential detection and retransmission of SONET signals between nodes. Additional regeneration equipment will only be provided by the Company when the actual fiber facility distance between the nodes exceeds SONET design limits. A monthly **recurring SONET** Ring Service Regeneration Charge, as set forth in V.E. following, will apply for each regenerator required for the provision of **SONET** Ring Service.

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SONET RING SERVICE

(T)

I. REGULATIONS (Continued)

(T)

A. Description of Service (Continued)

(T)

11. Sprint SONET Ring Service Rearrangements

For service rearrangements involving OC3 or **OC12 SONET** Ring Service, a charge equal to one half the Optical Service Charge set forth VI.B. will apply for each Customer or Central Office Node rearranged. The Optical Service Charge recovers the labor involved with designing, provisioning, and installing Customer and Central Office Nodes.

(T)

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer designated premises. Changes in the type of service or service termination are treated as disconnects and starts. Changes in the physical location of the point of the termination are treated as moves and are described and charged for as set forth in VI.D. following.

12. Multiplexed Service Connection

A Multiplexed Service Connection is an arrangement that allows one DS1, DS3, OC3, or OC12 channel of a multiplexed Company service to be connected to one DS1, DS3, OC3, or OC12 channel with like signaling of another Company service. For example, the lesser speed may be a LightLink DS3 channel connected between a **multiplexed SONET** Ring Service. A Multiplexed Service Connection will be provided at all Company locations where Central Office Multiplexing is performed.

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13. Multipoint service is not available **with SONET** Ring Service.

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14. A Channel Service Unit (CSU) or appropriate termination equipment provided by the customer is required at a customer's or authorized user's premises to perform such functions as:

- proper termination of the service
- amplification
- signal shaping
- remote loop-back

15. Unless specified following, the regulations **for SONET** Ring Service specified herein apply in addition to the regulations set forth in other sections of this tariff.

(T)

16. Temporary Suspension of Service (Vacation Service) at the customer's request, as defined in Section 20 of the Ohio General Exchange Tariff P.U.C.O. No. 5, is not allowed.

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SONET RING SERVICE

(T)

I. REGULATIONS (Continued)

(T)

A. Description of Service (Continued)

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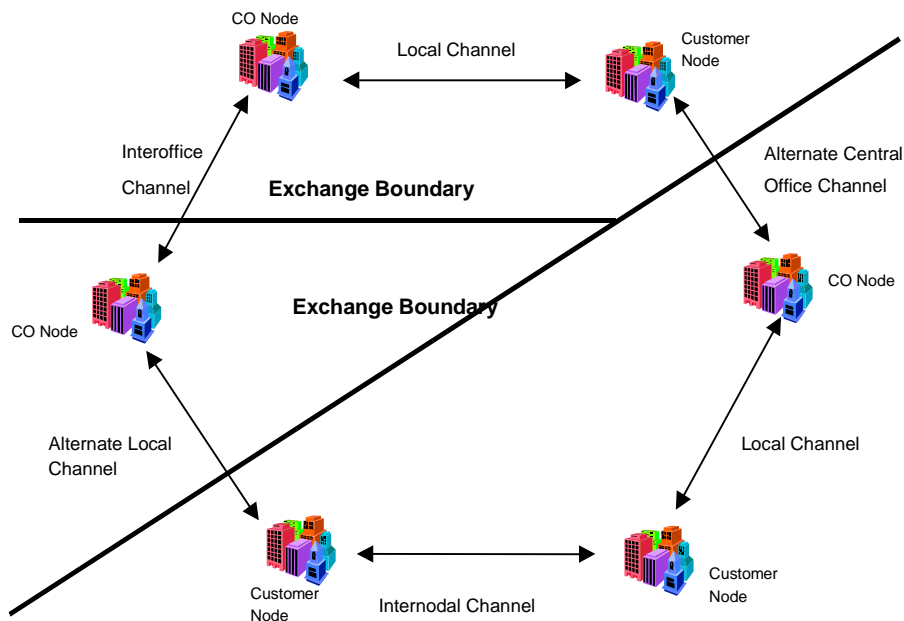
17. Service Diagram

The following diagrams depict generic views of **SONET** Ring Service:

(T)

Six-node SONET Ring Service

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A Configuration Card may apply at each node. The rate element applies for capacity that originates or terminates at a node. A Configuration Card provides for electrical (DS1, DS3, OC3c) or optical (OC3 and OC12).

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SONET RING SERVICE

(T)

I. REGULATIONS **(Continued)**

(T)

A. Description of Service **(Continued)**

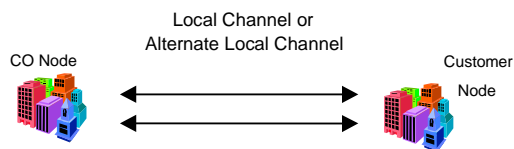
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17. Service Diagram **(Continued)**

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Two-node SONET Ring Service

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A Configuration Card may apply at each node. The rate element applies for capacity that originates or terminates at a node. A Configuration Card provides for electrical (DS1, DS3, OC3c) or optical (OC3 and OC12).

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SONET RING SERVICE

(T)

I. REGULATIONS (Continued)

(T)

B. Definitions

1. Channel Service Unit (CSU) - The term "Channel Service Unit (CSU)" denotes equipment provided by the customer to terminate a digital facility on the customer's premises.
2. OC3 - This denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It has a 155.52 Mbps transmission data rate.
3. OC12 - This denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It has a 622.08 Mbps transmission data rate.
4. Nonrecurring Charge - A one-time charge for the initial installation, the installation of functions and features and service rearrangements.
5. Serving Wire Center - The local telephone central office assigned to subscribers in a predetermined geographic area.

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SONET RING SERVICE

(T)

I. REGULATIONS (Continued)

(T)

C. Connections

1. Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems may be connected to **SONET** Ring Service when such connection is made in accordance with the provisions specified in 2, 3 and 4 following.

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2. Responsibility of the Company

- a. The responsibility of the Company shall be limited to the furnishing and maintenance of **SONET** Ring Service to a network interface on the customer's premises where provision is made for the connection of local service.

(T)

- b. The Company shall not be responsible for installation, operation or maintenance of any terminal equipment or communications systems provided by the **customer**. **SONET** Ring Service is not represented as adapted for the use of such equipment or system. Where such equipment or system is connected to Company facilities, the responsibility of the Company shall be limited to the furnishing of facilities suitable for **SONET** Ring Service and to the maintenance and operation in a manner proper for such digital service. The Company shall not be responsible for:

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- The through transmission of signals generated by such equipment or system, or for the quality of, or defects in, such transmission, or
 - The reception of signals by such equipment or systems, or
 - Damage to terminal equipment or communications systems provided by a customer or authorized user due to testing.

- c. The Company shall not be responsible to the customer if changes in any of the facilities, operations or procedures of the Company utilized in the provision of **SONET** Ring Service render any facilities or equipment provided by a customer obsolete, or require modification or alteration of such equipment or system or otherwise affects its use or performance.

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SONET RING SERVICE

I. REGULATIONS **(Continued)**

C. Connections **(Continued)**

2. Responsibility of the Company **(Continued)**

d. The Company is responsible for maintaining and repairing the facilities it furnishes. The customer may not rearrange, disconnect, remove or attempt to repair any equipment installed by the Company without prior written consent of the Company.

e. In order to maintain the quality of **SONET** Ring Service, the Company reserves the right to perform preventative maintenance and software updates to the network. The Company has classified maintenance as follows:

1) Scheduled Maintenance

Scheduled maintenance is performed for functions such as hardware and software upgrades and network optimization. The Company will perform these tasks in a maintenance window that is anticipated to minimize disruption of customer service and activity. The Company will provide advance notice of all scheduled maintenance.

2) Demand Maintenance

Demand maintenance may occur as a result of unexpected events and is performed **when** **SONET** Ring Service network elements are in jeopardy. The Company will perform this type of maintenance at its discretion. Due to the nature of demand maintenance, prior notification may not be possible; however, the customer will be informed when the maintenance has been completed.

3. Responsibility of the Customer

a. The customer is responsible for installing and testing the customer premises equipment or facilities to insure that when they are connected to **SONET** Ring Service such equipment or facilities are operating properly.

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SONET RING SERVICE

(T)

I. REGULATIONS (Continued)

(T)

C. Connections (Continued)

(T)

3. Responsibility of the Customer (Continued)

(T)

b. The operating characteristics of the customer premises equipment or facilities shall be such as to not interfere with any of the services offered by the Company. Such use is subject to the further provisions that the equipment provided by a customer does not: endanger the safety of Company employees or the public; damage, require change in or alteration of the equipment or other facilities of the Company; interfere with the proper functioning of such equipment or facilities; impair the operation of the Company's facilities or otherwise injure the public in its use of the Company's services. Upon notice that the equipment provided by a customer is causing or is likely to cause such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.

c. The customer's responsibility shall include cooperative testing with the Company as may be necessary. Where regeneration and/or equalization adjustments or changes may be required to compensate for rearrangements and/or changes in outside plant facilities, the customer will be responsible for all expenses incurred in changes to his customer premises equipment.

4. Connection of Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems

a. The following provisions will apply:

1) Customer-Provided Terminal Equipment and/or Customer-Provided Communications Systems may be connected at the premises of the customer **to SONET** Ring Service.

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2) The customers, by use of their own derivation equipment, may create digital bit streams **from SONET** Ring Service and such equipment may be connected for transmission of such bit streams when connected through a customer-provided CSU.

(T)

3) The undertaking of the Company is to **furnish SONET** Ring Service as ordered and specified by the customer except as specified in d. following.

(T)

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SONET RING SERVICE

I. REGULATIONS **(Continued)**

C. Connections **(Continued)**

4. Connection of Customer-Provided **(Continued)**

b. Connections to Other Services Furnished by the Company to the Same Customer

SONET Ring Service furnished by the Company may be connected by the customer to another service or to other services furnished by the Company as specified in 2. preceding. Connected services are subject to all rules and regulations governing the provisioning of those services.

c. Connections to Other Services Furnished by the Company to Different Customers

The customer may connect at the premises of the customer, to **another SONET** Ring Service or other services furnished by the Company to different customers as specified in 2. preceding. Connected services are subject to all rules and regulations governing provisioning of those services.

d. Connection of Channel Service Units

A Channel Service Unit (CSU) or appropriate termination equipment must be provided by the customer to connect a Company-provided digital facility. This equipment must comply with the technical requirements outlined in Part 68 of the FCC Rules and Regulations.

e. The customer shall be responsible for payment of a Maintenance of Service Charge, as set forth in Section 11 of the Ohio General Exchange Tariff P.U.C.O. No. 5, for visits by the Company to the customer's premises where the service difficulty or trouble report results from the use of equipment or facilities provided by the customer.

f. The customer may not rearrange, disconnect, remove or attempt to repair any equipment installed by the Company without the prior written consent of the Company.

g. For maintenance purposes, upon request of the Company, the customer will be responsible for notifying the Company of the type of digital terminating equipment used.

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SONET RING SERVICE

(T)

II. TERM PLAN

- A. The minimum service period is one year. A term plan provides the customer with discounted rates **for SONET Ring Service**. **SONET** Ring Service may be ordered under a term plan for fixed periods of one year, three years, or five years. All rate elements within the **same SONET** Ring Service facility must be ordered under the same commitment period. The customer must order the term plan in writing to the Company. (T)
- B. The customer must specify the length of the initial service period at the time the service is ordered. (T)
- C. At the end of the term plan the customer may subscribe to a new term plan at the prevailing rates set forth in V. following. If the customer does not specify renewal terms in writing 90 days prior to the expiration of the three or five year service period, the commitment period **and SONET** Ring Service rates for the one year term will automatically be applied. If the customer does not specify renewal terms in writing prior to the expiration of the one year service period, the commitment period and **the SONET** Ring Service rates in effect at the time of expiration will automatically renew. The customer can **terminate SONET** Ring Service at the end of the minimum commitment period with no penalty or obligation to continue the service. (T)
- D. Rate increases or decreases will automatically be applied to the monthly term plan rates for the remaining term of the term plan. If Company initiated rate increases to any rate element or combination of rate elements causes the charges for the **entire SONET** Ring Service under the term plan to increase by 10% or more annually, then the customer may cancel the term plan without incurring termination liability charges provided the customer notifies the Company within 30 days after the effective date of the rate increase. (T)
- E. The customer can extend term plan commitment periods at any time during the term of the plan, up to a maximum of five years. The number of remaining months in the original term plan will become part of the total term in the new term plan. (T)

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

SONET RING SERVICE

(T)

III. TERMINATION LIABILITY CHARGES

- A. If a customer under a term plan disconnects all or a portion of **SONET** Ring Service prior to the expiration of the term plan, then a Termination Liability Charge will apply to those services that are disconnected. The Termination Liability Charge will be a one-time charge equal to sum of 50% of the payments remaining for the rest of the term plan. (T)
- B. Customers may move Customer Nodes and/or Central Office Nodes on **the SONET** Ring Service and not be subject to Termination Liability Charges providing the terms of the term plan are maintained. If charges as specified in IV.A. following were applied to the service being terminated or moved, any termination or move charges associated with that construction apply, as well as any construction charges at the new location. (T)
- C. Termination Liability Charges will not apply when a service or rate element under a term plan is disconnected prior to the expiration of a selected service period as a result of a change in tariff jurisdiction and/or a customer requested upgrade to a next generation service offering, under the following conditions:
 - 1. The service period of the new term plan for the new service offering is a period equal to or exceeding the remaining service period of the disconnected term plan, and
 - 2. The service orders to install the new service and disconnect the old service are related together, and there is no lapse in service between the installation of the new service and the disconnection of the old service, and
 - 3. The service orders to install the new service and disconnect the old service are for the same customer and central office locations.
- D. The Company will determine whether the replacement service qualifies as a next generation service offering.
- E. Nonrecurring charges and Service Connection Charges for the new service will apply according to the requirements of the new service.
- F. Commission approval of the above termination liability language is not intended to indicate that the Commission has approved or sanctioned any terms or provisions contained therein. Signatories to such contracts shall be free to pursue whatever legal remedies they may have should a dispute arise.

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First Revised Sheet 15
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SONET RING SERVICE

(T)

IV. APPLICATION OF RATES

- A. The rates specified **for SONET** Ring Service in V. following contemplate the provision of a digital quality facility utilizing existing interoffice carrier equipment and/or exchange cable facilities compatible with this service. If equipment, new facilities or changes to existing facilities are required for the provision of this service, then charges as specified in Section 5 of the Ohio General Exchange Tariff P.U.C.O. No. 5, Special Types of Construction or Facilities will apply in addition to the rates **for SONET** Ring Service. (T)
- B. The rates and charges **for SONET** Ring Service are set forth in V., following, and are in addition to any applicable rates and charges set forth in other sections of this tariff. The applicable rates **for SONET** Ring Service include monthly recurring rates and nonrecurring charges, both of which are billed in advance. (T)
- C. Monthly recurring rates for Local, Alternative Central Office Interoffice, and Internodal Channels apply for each air mile increment of the channel. Air mileage is measured using V&H coordinates between nodes. Fractions of an airline mile are rounded up to the next mile. The minimum charge is one airline mile, except when the customer designated premises and the serving wire center are collocated in the Company building, or where both customer designated premises are in the same building. In those instances, the Intraoffice Channel monthly recurring rate would apply rather than the initial one mile minimum. (T)
- D. For Internodal Channels, monthly recurring charges apply, as appropriate, for the same serving wire center area or contiguous serving wire center areas. Monthly recurring rates for Customer and Central Office Nodes apply per node and are based upon the capacity of the ring configuration. (T)
- E. Monthly recurring rates for Configuration Cards apply for each origination and each termination of an activated DS1, DS3, OC3, OC3c, and/or OC12 at the Customer or Central Office Node. (T)
- F. The service period **for SONET** Ring Service is one, three or five years. (T)
- G. Charges for Special Types of Construction or Facilities, as set forth in Section 5 of the Ohio General Exchange Tariff P.U.C.O. No. 5, may apply where facilities and/or operating conditions do not permit the provision **of SONET** Ring Service and the customer desires the Company to provision **the SONET** Ring Service. (T)
- H. Customers may be required to pay charges for Special Types of Construction or Facilities as set forth in Section 5 of the Ohio General Exchange Tariff P.U.C.O. No. 5 when a four fiber optical service configuration is requested in lieu of the two fiber UPSR topology **for SONET** Ring Service. (T)

Where dual entrance facilities currently exist to a customer premises, special construction charges will not be assessed when the customer requests connection at both entrance facilities.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

SONET RING SERVICE

(T)

V. MONTHLY RATES

A. Customer Node

- Per Node

1. With Telephone Company Provided Terminal Equipment

	<u>Monthly Rate</u>	<u>Installation Nonrecurring Charge</u>
OC3		
1 Year	\$1,675.00	\$ 8,000
3 Year	1,465.00	N/A
5 Year	1,300.00	N/A
OC12		
1 Year	2,700.00	9,000
3 Year	2,430.00	N/A
5 Year	2,160.00	N/A

2. Without Telephone Company Provided Terminal Equipment

OC3		
1 Year	\$ 130.00	\$4,000
3 Year	120.00	N/A
5 Year	105.00	N/A
OC12		
1 Year	160.00	5,000
3 Year	145.00	N/A
5 Year	130.00	N/A

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By Chad R. Eckhart, Vice President - Regulatory
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SONET RING SERVICE

(T)

V. MONTHLY RATES (Continued)

(T)

B. Central Office Node

- Per Node

	Monthly Rate	Installation Nonrecurring Charge
OC3		
1 Year	\$1,700.00	N/A
3 Year	1,530.00	N/A
5 Year	1,360.00	N/A
OC12		
1 Year	2,600.00	N/A
3 Year	2,340.00	N/A
5 Year	2,080.00	N/A

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SONET RING SERVICE

(T)

V. MONTHLY RATES (Continued)

(T)

C. Configuration Card

- Per Interface

	<u>Monthly Rate</u>
1. OC3	
DS1 Level	
1 Year	\$ 25.00
3 Year	20.00
5 Year	15.00
DS3 Level	
1 Year	70.00
3 Year	60.00
5 Year	50.00
2. OC12	
DS1 Level	
1 Year	25.00
3 Year	20.00
5 Year	15.00
DS3 Level	
1 Year	70.00
3 Year	60.00
5 Year	50.00
OC3 Level	
1 Year	175.00
3 Year	150.00
5 Year	130.00
OC3 Concatenated	
1 Year	200.00
3 Year	175.00
5 Year	150.00

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SONET RING SERVICE

(T)

V. MONTHLY RATES (Continued)

(T)

D. Channel Charges

	<u>Monthly Rate</u>	
1. Local Channel - Per Mile		
	1	Year
\$270.00		
	3	Year
250.00		
5 Year	225.00	
2. Alternate Central Office Channel - Per Mile		
1 Year	240.00	
3 Year	220.00	
5 Year	200.00	
3. Interoffice Channel - Per Mile		
1 Year	230.00	
3 Year	210.00	
5 Year	190.00	
4. Internodal Channel - Per Mile		
1 Year	265.00	
3 Year	240.00	
5 Year	220.00	
5. Intraoffice Channel - Per OC3 or OC12		
1 Year	115.00	
3 Year	100.00	
5 Year	90.00	

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SONET RING SERVICE

(T)

V. MONTHLY RATES (Continued)

(T)

E. SONET Ring Service Regeneration Charge

(T)

- Per Regeneration

OC3

Monthly Rate

\$1,700.00

1

Year

1,500.00

3

Year

1,300.00

5

Year

OC12

2,800.00

1

Year

2,600.00

3

Year

2,300.00

5

Year

F. Multiplexed Service Connection

Monthly Rate

Nonrecurring Charge

- Per DS1

\$ 10.00

\$100.00

- Per DS3

15.00

100.00

- Per OC3 and OC12

25.00

100.00

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SONET RING SERVICE

(T)

VI. NONRECURRING CHARGES

Nonrecurring Charge

- A. **SONET** Ring Service Reconfiguration Charge
- Per DS3 Equivalent

\$750.00

(T)

- B. Optical Service Charge
- Per Node

OC3

\$7,500.00

OC12

\$8,000.00

- C. Initial Nonrecurring Charge

The Installation Nonrecurring Charge is applicable for the initial installation of a Customer Node and/or Central Office Node.

- D. Move Charges

A Move Charge applies for Customer and/or Central Office Nodes moved to a new location, even when moved on the same premises. The Move Charge is equal to the Customer Node and/or Central Office Node Installation Nonrecurring Charge and applies in addition to the Initial Service Order Charge located in Section 4 of the Ohio General Exchange Tariff P.U.C.O. No. 5.

- E. Service Connection, Changes and Moves

An Initial Service Order Charge as set forth in Section 4 of the Ohio General Exchange Tariff P.U.C.O. No. 5 is applicable per customer request. Nonrecurring Charges specified in this tariff section are in lieu of all other Service Connection Charges.

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P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

FRAME RELAY SERVICE**

I. DESCRIPTION

Frame Relay Service (FRS), is a fast packet network employing digital technology. Frame relay is a data transmission technique that combines the high speed and low delay of circuit switching with port sharing and dynamic bandwidth allocation capabilities of X.25 packet switching. Frame relay divides transmission bandwidth into numerous virtual circuits and allows for bursts of data. Unlike X.25, frame relay does not require a lot of processing at each node. FRS provides for data connectivity between and among widely distributed locations. This connectivity is provided to the customer through dedicated high speed access connections that permit the transmission of data at speeds up to 1.544 mbps using permanent virtual circuits shared on a high performance packet switching platform.

Permanent virtual circuits (PVCs) are logical circuits that define a specific bi-directional path for data sent by the customer to another location. These circuits are virtual because they are established in software tables and do not tie up capacity when not in use. This also allows multiple PVCs to be defined over a single access line, thereby providing this single access line the capability to transmit data to multiple destinations.

In the operation of FRS, customer premises equipment (CPE), such as frame relay assembler and disassemblers, encapsulate arriving data into variable length frames. These frames contain information, data link connection identifier (DLCI) addresses, identifying which PVC in the network should be used to forward the frame to the proper destination. The CPE then sends the frame into the frame relay network over a dedicated access facility called a user network interface (UNI). The frame relay switch reads identifying information and routes the frame to the proper destination based on a pre-established PVC.

FRS conforms to the International Telecommunications Union (ITU), formerly the Consultative Committee for International Telegraph and Telephone (CCITT), and American National Standards Institute (ANSI) standards set forth in technical publications.

FRS, as provided for in this tariff section, is offered for local, intraLATA and intrastate interLATA use. The regulations and rates specified herein are in addition to the applicable regulations and rates specified in other tariffs and other sections of this tariff. The rates and charges set forth for FRS provide for the furnishing of the service where suitable facilities are available.

** Effective June 10, 1999, Frame Relay Service is grandfathered. Existing customers may continue to receive Frame Relay Service under the conditions and rates as specified in this section of the tariff, as long as there is no change to the customer's account.

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FRAME RELAY SERVICE**

II. DEFINITIONS

- A. Committed Information Rate (CIR) - The amount of subscriber data throughput that the Telephone Company will support under normal network conditions. CIR is administered per permanent virtual circuit (see below). During normal periods a customer will be allowed to burst data to twice the CIR rate purchased (unless the access line or port subscribed to can not accommodate twice the speed (e.g., if a 56 kbps access line is ordered with a PVC at 32 kbps CIR the burst is limited to an additional 24 kbps instead of 32 kbps so as not to exceed the access line speed). If the frame relay network develops congestion, the Telephone Company may limit throughput to the CIR. Any data transfer rate that exceeds twice the CIR of the PVC may be discarded. The retransmission of discarded frames is administered by the CPE.
- B. Customer Designated Location (CDL) - The geographic location designated by the customer where the customer's CPE is first considered to enter the Telephone Company's network.
- C. Digital Cross Connect System (DCCS) - This service provides private line customers flexibility in reconfiguring their private line circuits. This service allows customers to elect to merge various combinations of individual voice grade circuits, 56/64 kbps, DS0 channels into DS1 channels or DS1 channels into DS3 channels.
- D. Frame - A sequence of contiguous bits delimited by beginning and ending flag sequences.
- E. Frame Relay Access Line (FRAL) - A FRAL is a user network interface (UNI) that provides access to the FRS network. A FRAL can be purchased only if the customer has service (local dial tone) from a Telephone Company serving wire center (SWC). A FRAL includes the provision of a frame relay access port.
- F. Frame Relay Access Port (FRAP) - FRAP is a port on the frame relay network that is used to interconnect other Telephone Company private line services such as DigiLink, TransLink or a digital cross connect system (DCCS) port to the FRS.
- G. Gateway Service - This service allows the Telephone Company FRS customers to interconnect to another frame relay network. The service is available wherever the Telephone Company has established a network-to-network interface with another private or public network.
- H. Network-to-Network Interface (NNI) - The NNI specifies how a frame relay switch sends and receives data from a frame relay interexchange carrier's or other customers' network. The NNI is offered at an access speed of 1.544 mbps.

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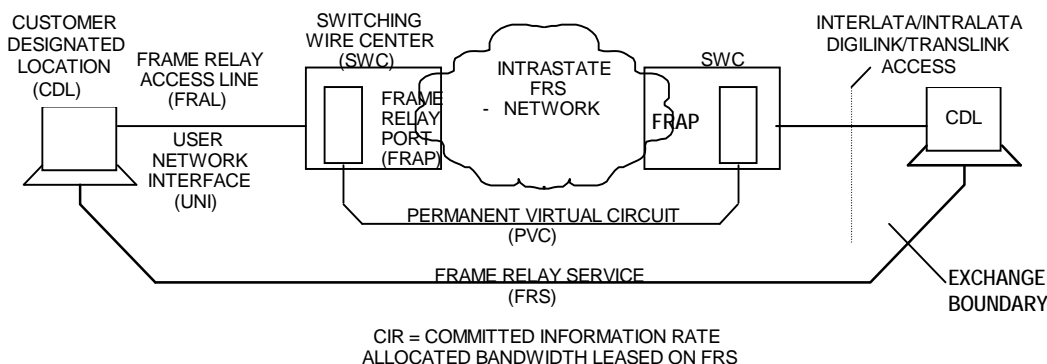
P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

FRAME RELAY SERVICE**

II. DEFINITIONS (Continued)

- I. Permanent Virtual Circuit (PVC) - A PVC is a logical channel from one frame relay port to another frame relay port within the frame relay network. PVCs are provisioned on 56 kbps ports or 1.544 mbps ports, depending on the customer's data networking requirements.
- J. Port - In a FRS, ports are the physical entry points for customer access lines and the originating and terminating points for PVCs. Ports include the electronic equipment used in connecting these service elements to the FRS network. Ports enable customers to allocate bandwidth to applications as needed at customer designated transmission speeds of either 56 kbps or 1.544 mbps. Port access is included in the FRAL but may be purchased separately (a FRAP) when using a Telephone Company approved access method (**DigiLink/TransLink or DCCS**) to interconnect to the frame relay network. (T)
- K. Protocol - A specific set of rules, procedures or conventions relating to format and timing of data transmission between two devices. A standard procedure that two data devices must accept and use to be able to understand each other. Protocols break a file into parts called blocks or packets. These packets are sent and the receiving computer checks the arriving packet and sends an acknowledgment back to the sending computer.
- L. Serving Wire Center (SWC) - The customer's serving wire center is the Telephone Company central office from which the customer normally receives dial tone.
- M. User Network Interface (UNI) - The UNI is a standard interface used to connect the end user to the Telephone Company frame relay network. It receives the data frame from the customer's local area network (LAN) or other CPE devices and verifies that the DLCI is valid before relaying the frame to the destination and point.

The following diagram illustrates many of the above mentioned terms.



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FRAME RELAY SERVICE**

III. GENERAL REGULATIONS

- A. FRS is provided to the customer in the form of a FRAL or a combination of **DigiLink/TransLink** and a FRAP, and a PVC at a specific CIR. The FRAL or a combination of **DigiLink/TransLink** and a FRAP forms the customer access component to the frame relay network. A PVC must be ordered for transmission between any two locations. The CIR determines the speed the Telephone Company will support under normal operating conditions on a specific PVC. (T)
- B. The Telephone Company does not undertake to originate data, but offers the use of its service components, where available, to customers for the purpose of transporting customer originated data. (T)
- C. Whenever facilities are provided jointly by the Telephone Company and one or more other telephone companies, the regulations, rates and charges of such other telephone companies apply for the equipment and facilities furnished by them for use in connection with the interexchange FRS provided by the Telephone Company.
- D. Where it is necessary to use interexchange or local channel facilities of another telephone company in order to furnish a private line service to interconnect to the Telephone Company FRS, such service will be furnished only if satisfactory arrangements can be made with the other company.
- E. Due to technical limitations, the distance between the SWC and the customer designated location (CDL) is limited to approximately 12,000 feet for 1.544 mbps access or 18,000 feet for 56 kbps access. A Telephone Company engineer may allow some deviation of this specification based on the gauge of wire used. For access lines that exceed this specification, the access line may be made operational by adding additional equipment. The Telephone Company will apply a special construction charge for the time and material.
- F. Obligations of the Telephone Company
 - 1. The responsibility of the Telephone Company shall be limited to furnishing network equipment suitable for FRS and to the maintenance and operation of such equipment in a manner proper for such service. Subject to this responsibility, the Telephone Company shall not be responsible for the through transmission of signals generated by the customer provided equipment or system, or for the quality of, or defects in, such transmission or the reception of signals by such equipment or systems.

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FRAME RELAY SERVICE**

III. GENERAL REGULATIONS (Continued)

F. Obligations of the Telephone Company (Continued)

2. The Telephone Company shall not be responsible for installation, operation or maintenance of any terminal equipment, data unit or communications system provided by a customer or user. The Telephone Company is not responsible for adapting FRS to the technological requirements of any specific customer equipment.
3. The Telephone Company may provide advisory assistance as a part of the establishment of FRS which is relayed to other Local Exchange Carriers (LECs), Interexchange Carriers (ICs), or other frame relay networks.
4. The Telephone Company shall not be responsible to the customer or user if changes in any of the equipment, operations or procedures of the Telephone Company used in the provision of FRS render any facilities provided by the customer or user obsolete or require modification or alteration of such equipment or system or otherwise affect its use or performance, provided the Telephone Company has met any applicable information disclosure requirements otherwise required by law.
5. The Telephone Company undertakes the responsibility to maintain and repair the service which it furnishes. Network equipment installed by the Telephone Company on the customer's premises shall be and remain the property of the Telephone Company. The customer or user may not rearrange, disconnect, remove, attempt to repair, remote test, or interface with any network equipment installed by the Telephone Company without prior written consent by the Telephone Company.
6. The Telephone Company, by written notice to the customer, may immediately discontinue the furnishing of FRS without incurring liability upon nonpayment of any sum due to the Telephone Company or a violation of any condition governing the furnishing of service.
7. The Telephone Company has the service responsibility up to and including the network interface.

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FRAME RELAY SERVICE**

III. GENERAL REGULATIONS (Continued)

G. Obligations of the customer

1. The customer's equipment must be in compliance with ANSI standards T1.606-1990, T1.606 Addendum 1-1991, T1.606a -1992, T1.617, Annex D-1992, LMI Rev. 1, T1.618, and CCITT Recommendation Q.921. The customer's frame relay compatible data terminal equipment has the responsibility for error correction. The frame relay switch may discard frames with errors and may discard frames above the CIR when the FRS network is in a state of congestion.
2. Where FRS is available for use in connection with communications systems or equipment provided by a customer or user, the operating characteristics of such systems or equipment shall be such as not to interfere with any services offered by the Telephone Company. Such use is subject to further provisions that the equipment provided by the customer or user does not endanger the safety of Telephone Company employees or the public; damage, harm, require change in or alteration of the equipment or other services of the Telephone Company; interfere with the proper operation of the Telephone Company's equipment or otherwise injure the public in its use of the Telephone Company's services. Upon notice from the Telephone Company that the equipment provided by the customer or user is causing, or is likely to cause, such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.
3. The customer, upon request, shall furnish such information as may be required to permit the Telephone Company to design and maintain the FRS it offers and to assure that the service arrangement is in compliance with regulations contained herein.
4. It shall be the responsibility of the customer to ensure the continuing compatibility of the CPE that is used in conjunction with the FRS. The CPE shall be in compliance with rules and regulations as specified in the Telephone Company's General Exchange Tariff, P.U.C.O. NO. 5.
5. The customer shall be responsible for obtaining permission for the Telephone Company's employees or agents to enter the premises of the customer at any reasonable hour for the purpose of installing, inspecting, repairing, or removing the service components of the Telephone Company.

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FRAME RELAY SERVICE**

III. GENERAL REGULATIONS (Continued)

F. Obligations of the customer (Continued)

6. The customer shall be responsible for the payment of a nonrecurring Maintenance of Service Charge as found in the Telephone Company's P.U.C.O. NO. 5 General Exchange Tariff for each repair visit to a customer premises where the service difficulty or trouble results from the use of equipment or service components provided by the customer.
7. The customer assumes all responsibility for insuring that the FRAL, **Digilink/TransLink**, or FRAP is sufficient to satisfy the requirements of the customer's applications. In addition, the Telephone Company cannot be responsible for the impact of one customer's over-utilization of a facility on the network performance of other customers. (T)
(T)
8. A FRAL or a FRAP can be associated with multiple PVCs. Since all PVCs need not be in use at the same time, it is possible for the total bandwidth of all PVCs associated with one FRAL or FRAP to exceed the bandwidth of that FRAL or FRAP. Such a relationship is referred to as over-subscription and when this occurs, there can be no guarantee that the bandwidth defined for that PVC will be available at any point in time.
9. A customer may request data transmission capability to another customer. Both customers must have a FRAL or FRAP on the Telephone Company's FRS. The controller of a FRAL or FRAP must have written permission from the controller of the other FRAL or FRAP in order to establish a PVC between the two customers. This written permission must be presented to the Telephone Company before the request can be processed. After the customer presents this written permission, the customer will be referred to as the controller of the PVC.
10. The FRAL or FRAP, and PVC are ordered and billed independently and can have different customers as controllers. A request by one customer to discontinue a PVC does not result in the disconnection of the FRAL or FRAP of the other customer (the customer may have PVCs established to other customers). Only the controller of a FRAL, FRAP or PVC may authorize the disconnection of that FRAL, FRAP or PVC.

IV. RATES AND CHARGES

- A. The minimum contract period for FRALs and FRAPs is three (3) months. There is no minimum period for PVCs.
- B. When a customer orders service under a term discount plan (TDP) then the customer agrees to the following terms:

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FRAME RELAY SERVICE**

IV. RATES AND CHARGES (Continued)

B. When a customer ... (Continued)

(N)

1. If a customer disconnects any portion of their TDP service prior to the end of month 12, the customer will be liable for 100% of the payments remaining for the first twelve months and 50% of the payments remaining for the rest of the term plan or 12 months, whichever is shorter. For example, a customer disconnecting in the 10th month of a 60 month plan owes 100% of the 60 month plan rate for 2 months plus 50% of the 60 month plan rate for 12 additional months in one payment following termination.
2. If a customer disconnects any portion of their TDP service after the end of the 12th month, the customer will be liable for 50% of the payments remaining for the rest of the term plan or 12 months, whichever is shorter. For example, a customer disconnecting in the 25th month of a 36 month plan owes 50% of the term payments for an additional 11 months in one payment following termination.

Commission approval of the above termination liability language is not intended to indicate that the Commission has approved or sanctioned any terms or provisions contained therein. Signatories to such contracts shall be free to pursue whatever legal remedies they may have should a dispute arise.

3. Rate increases or decreases will automatically be applied to the monthly term plan rates for the remaining term of the TDP. If a Telephone Company initiated rate increase causes a customer's rates to exceed the original rates in effect at the beginning of the TDP, the customer may cancel the TDP without incurring termination liability charges.

- C. When a customer orders additional PVCs, changes PVC assignments or changes the CIR on a PVC on a given FRS port after the initial installation, the frame relay PVC nonrecurring charge shall apply.

D. Service Changes:

1. Additions to Service
 - a. When service elements are added to an existing service, the added elements must meet the minimum period requirements associated with the service to which they are added.
 - b. Related monthly rates and nonrecurring charges for addition to service are the rates and charges in effect at the time of the addition(s).

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FRAME RELAY SERVICE**

IV. RATES AND CHARGES (Continued)

D. Service Charges: (Continued)

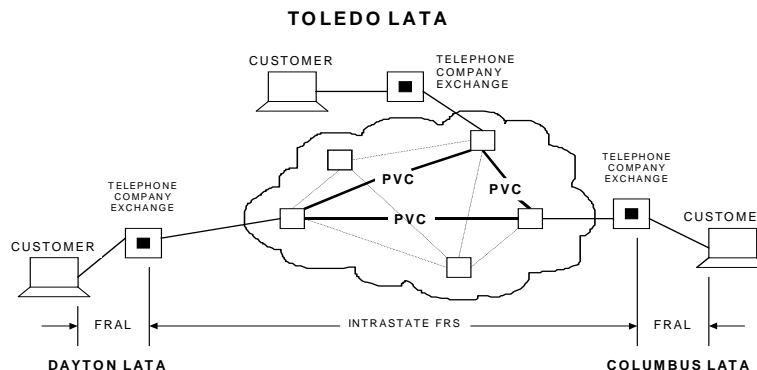
2. Administrative Charge

An administrative charge will be applied whenever a change is made to a customer's frame relay configuration (including changes to existing group addressing), at the customer's request. Such changes are defined as those rearrangements necessary to add, delete, or rearrange the customer's configuration and changes of CIR on a PVC. Although multiple changes may be caused by such actions, only one administrative charge will apply.

E. Rate Elements

1. User Network Interface (UNI) is furnished from the customer's premise to a Telephone Company serving wire center. The UNI has two rate options, local access and joint access.

- a. Local access - Local access applies to customers who get their local dial tone from the Telephone Company. The customer is charged for a FRAL consisting of a nonrecurring charge and monthly rate, both rates are based on the speed of the port connection (i.e. 56 kbps or 1.544 mbps). The charges apply to the facility furnished from the customer's premises to the customer's SWC (the SWC is the Telephone Company exchange where the customer gets his local dial tone for local service) providing local access to the network supporting FRS. The FRAL includes the provision of a port. The diagram following illustrates a customer network consisting of three locations in three different LATAs where the customer's SWCs are all furnished from the Telephone Company. In this example, the customer will be billed for three FRALs, and three PVCs.



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By Chad R. Eckhart, Vice President - Regulatory
Overland Park, Kansas

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EXHIBIT A

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FRAME RELAY SERVICE**

IV. RATES AND CHARGES (Continued)

E. Rate Elements (Continued)

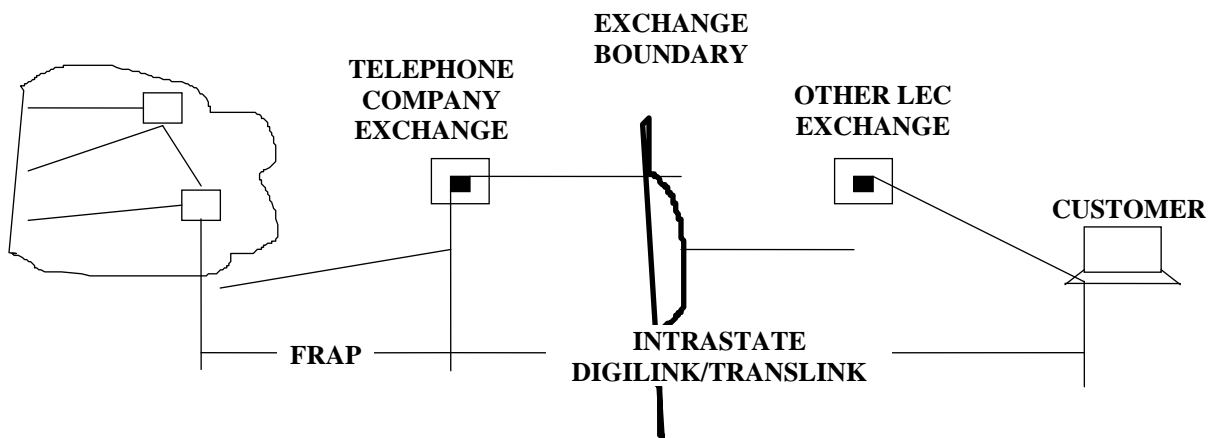
1. User Network Interface (Continued)

- b. Joint access - Joint access applies to customers that get their local dialtone in another telephone company SWC. Joint access to the FRS is LATA specific as follows:

Customers in the 322 (Youngstown), 324 (Columbus), 326 (Toledo), 328 (Dayton), 922 (Cincinnati), and 923 (Mansfield/Lima) LATAs will purchase an intraLATA or interLATA DigiLink (56 kbps) or TransLink (1.544 mbps) service (to a Telephone Central Office [CO] or Point of Presence [POP], whichever is least expensive) as tariffed in Section 3 or Section 5 of this tariff for access to the FRS, provided facilities are available.

Customers in the 320 (Cleveland) LATA will purchase an interLATA DigiLink or TransLink service to either the Mansfield CO, the Warren CO, or the Ashtabula POP, whichever is the least expensive, and provided facilities are available. Customers in the 325 (Akron) LATA will purchase an interLATA DigiLink or TransLink service to the Wooster CO.

In addition to the DigiLink or TransLink Service, the customer must purchase a FRAP. The diagram below illustrates a FRS that originates in another telephone company's exchange and interconnects to the Telephone Company's frame relay network. The customer will be billed for one DigiLink or TransLink circuit (intraLATA or interLATA, as appropriate), one FRAP, and whatever PVC(s) are required.



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FRAME RELAY SERVICE**

IV. RATES AND CHARGES (Continued)

E. Rate Elements (Continued)

2. Frame Relay Access Port (FRAP)

A monthly rate, based on the speed of the port connection (i.e. 56 kbps or 1.544 mbps) applies per port connection to the network supporting FRS. The port rate element can be used in lieu of the FRAL element if the customer has an alternative Telephone Company approved access to the frame relay network (e.g. DCCS).

3. CIR and PVC - A monthly charge based on the desired Telephone Company supported speed of each PVC. The minimum CIR is 8 kbps for 56 kbps access and 64 kbps for 1.544 mbps. A nonrecurring charge applies for the establishment of each PVC.

4. Administrative Charge - Applies to changes in a customer's network configuration such as additions or changes of PVCs and CIRs. Although multiple changes can be caused by such actions, only one administrative charge applies. A PVC nonrecurring charge will also apply for each PVC added.

5. Network to Network Interconnection - A charge for a DS1 facility from a carrier's POP to the FRS. In addition to the access facility, a 1.544 FRAP will be purchased. The charges are covered in the **Company's** Local Telephone Companies Tariff, F.C.C. No. 1.

(T)

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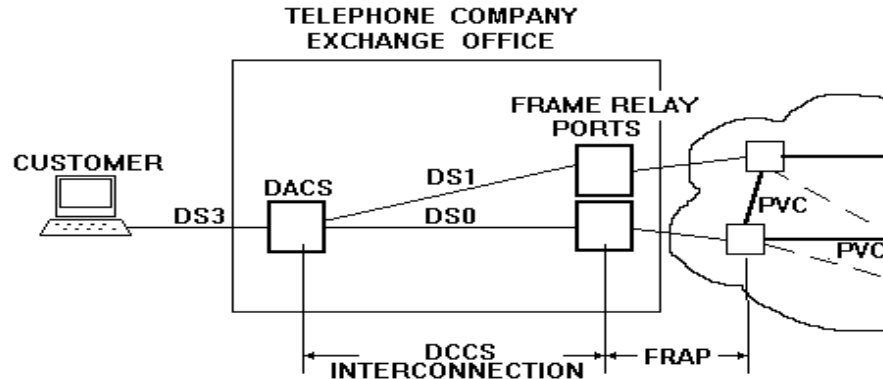
FRAME RELAY SERVICE**

IV. RATES AND CHARGES (Continued)

E. Rate Elements (Continued)

6. DCCS interconnection charge - The DCCS interconnection charge covers the facility that interconnects the DCCS equipment to the FRS but does not include the DCCS port or FRAP. The following diagram represents a customer that has purchased a DS3 that is used primarily for other Telephone Company services. This customer has some spare capacity on the DS3 and utilizes a DS1 and a 56 kbps DSO to be interconnected to the Telephone Company FRS. This saves the customer from purchasing a separate FRAL, **DigiLink** or **TransLink** service.

(T)



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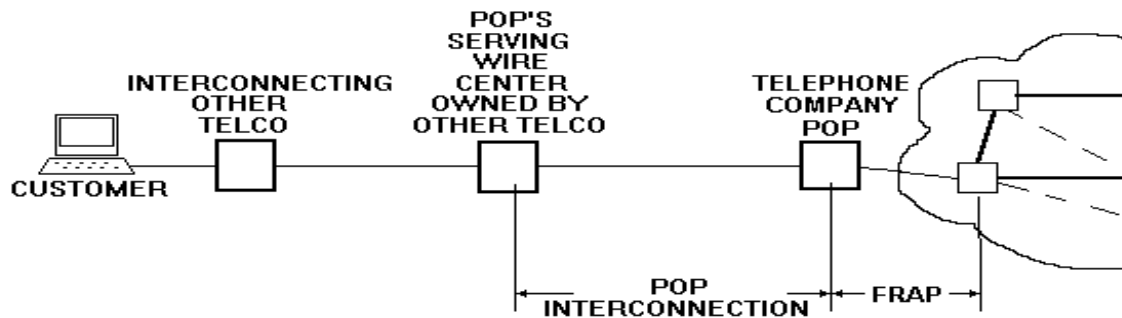
P.U.C.O. NO. 1 PRIVATE LINE SERVICE TARIFF

FRAME RELAY SERVICE**

IV. RATES AND CHARGES (Continued)

E. Rate Elements (Continued)

7. POP interconnection charge - The POP interconnection charge, illustrated in the following diagram, covers the facility furnished by the Telephone Company from a Telephone Company POP to the POP's SWC.



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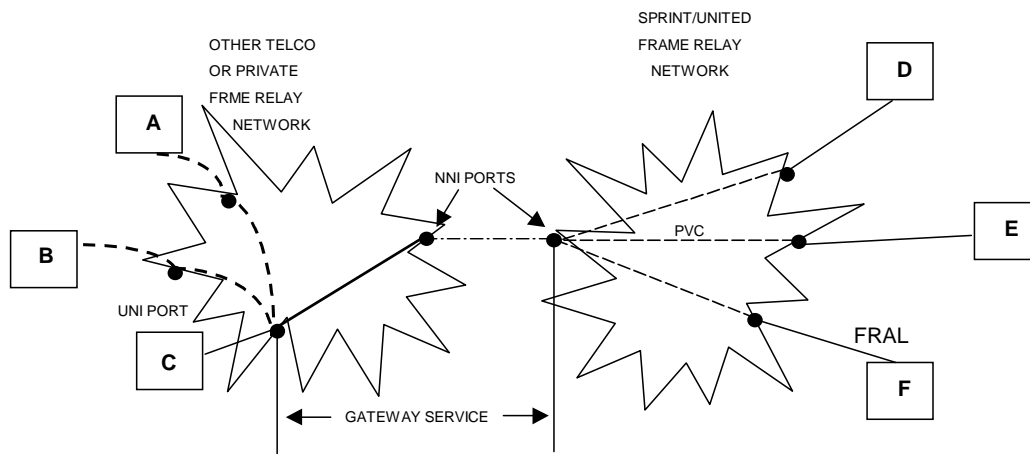
FRAME RELAY SERVICE**

IV. RATES AND CHARGES (Continued)

E. Rate Elements (Continued)

8. Gateway charge - covers the facility from the Telephone Company FRS port to the interconnecting frame relay service of another company. The charge also includes the software defined PVC on the other company's network to the UNI port, but does not include the UNI port provided by the other company. The Gateway charge is purchased in increments of CIR. The diagram below shows a typical customer network that has three DATA DEVICES interconnected to the Telephone Company FRS (sites D, E, & F). The customer needs to interconnect their DATA DEVICES to a Fourth site (C) located on the frame relay service of another company. The customer accomplishes this by purchasing three FRALs at sites D, E, & F and three PVCs to the Gateway port. The customer will purchase three Gateway service connections to the UNI port (site C) on the other company's network. This example assumes that access from site C is already established as illustrated. (Site C has established PVCs to sites A and B from the other company.) It is the customer's responsibility to establish the access (sites A, B, & C) to the other company's network. However, the Telephone Company will assume the responsibility to interconnect any Gateway services to the other company's UNI ports. The Gateway service is purchased at either 56 kbps or 1.544 mbps at various CIR in increments listed in Paragraph F. Minimum rates.

GATEWAY SERVICE



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FRAME RELAY SERVICE**

F. Rates and Charges

1. User Network Interface

a. Local Access to the Frame Relay Service (FRAL) includes port.

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. 56 kbps access:			
Month to month	FCEALTA(UNC)	\$200.00	\$460.00
12 - 23 months	FCEALTA(001)	190.00	N/A
24 - 35 months	FCEALTA(002)	180.00	N/A
36 - 59 months	FCEALTA(003)	170.00	N/A
60 - 84 months	FCEALTA(004)	160.00	N/A
2. 1.544 mbps access:			
Month to month	FCEALTB(UNC)	700.00	592.00
12 - 23 months	FCEALTB(001)	650.00	N/A
24 - 35 months	FCEALTB(002)	600.00	N/A
36 - 59 months	FCEALTB(003)	550.00	N/A
60 - 84 months	FCEALTB(004)	500.00	N/A
b. Joint access to the FRS (does not include required frame relay port). Term discounts are available.			
1. IntraLATA			
a. 56 kbps access - use the rates for DigiLink in Section 3 of this tariff.			(T)
b. 1.544 mbps - use the rates for TransLink in Section 3 of this tariff.			(T)
2. InterLATA			
a. 56 kbps access - use the rates for DigiLink in Section 5 of this tariff.			(T)
b. 1.544 mbps - use the rates for TransLink in Section 5 of this tariff.			(T)

(D)

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FRAME RELAY SERVICE**

F. Price List (Continued)

2. Frame Relay Access Port

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
a. 56 kbps access:			
Month to month	FCEALA0	\$ 75.00	\$460.00
12 - 23 months	FCEALA0(001)	70.00	N/A
24 - 35 months	FCEALA0(002)	65.00	N/A
36 - 59 months	FCEALA0(003)	60.00	N/A
60 - 84 months	FCEALA0(004)	55.00	N/A
b. 1.544 mbps access:			
Month to month	FCEALB0	200.00	592.00
12 - 23 months	FCEALB0(001)	185.00	N/A
24 - 35 months	FCEALB0(002)	170.00	N/A
36 - 59 months	FCEALB0(003)	155.00	N/A
60 - 84 months	FCEALB0(004)	140.00	N/A
3. CIR, Per PVC			
a. 8 kbps	PDVDXAD(008)	5.00	25.00
b. 16 kbps	PDVDXAD(016)	10.00	25.00
c. 24 kbps	PDVDXAD(024)	15.00	25.00
d. 32 kbps	PDVDXAD(032)	20.00	25.00
e. 40 kbps	PDVDXAD(040)	25.00	25.00
f. 48 kbps	PDVDXAD(048)	30.00	25.00
g. 56 kbps	PDVDXAD(056)	35.00	25.00
h. 64 kbps	PDVDXAD(064)	40.00	25.00
i. 128 kbps	PDVDXAD(128)	50.00	25.00
j. 256 kbps	PDVDXAD(256)	70.00	25.00
k. 512 kbps	PDVDXAD(512)	85.00	25.00
l. 768 kbps	PDVDXAD(768)	95.00	25.00
m. 1024 kbps	PDVDXAD(999)	105.00	25.00
4. Administrative	N/A	N/A	\$50.00
5. NNI Interconnection			
a. 1.544 mbps access:			
Month to month	PDUD1(NNI)	200.00	592.00
12 - 23 months	PDUD1(NN1)	185.00	N/A
24 - 35 months	PDUD1(NN2)	170.00	N/A
36 - 59 months	PDUD1(NN3)	155.00	N/A
60 - 84 months	PDUD1(NN4)	140.00	N/A

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FRAME RELAY SERVICE**

F. Price List (Continued)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
6. DCCS Interconnection			
a. 56 kbps	PDUD1(F56)	\$ 0.75	\$50.00
b. 1.544 mbps	PDUD1(FTI)	6.00	50.00
7. POP interconnection			
a. 56 kbps	PDUD1(FP5)	\$ 40.00	\$ 100.00
b. 1.544 mbps	PUDU1(FPT)	300.00	1,000.00
8. Gateway:			
a. 8kbps			
Month to Month	FCEALMT(8K)	\$16.00	\$75.00
12-23 months	FCEALMT(8KA)	16.00	75.00
24-35 months	FCEALMT(8KB)	16.00	20.00
36-59 months	FCEALMT(8KC)	15.00	20.00
60-84 months	FCEALMT(8KD)	15.00	20.00
b. 16 kbps			
Month to Month	FCEALMT(16K)	\$32.00	\$75.00
12-23 months	FCEALMT(16A)	32.00	75.00
24-35 months	FCEALMT(16B)	31.00	20.00
36-59 months	FCEALMT(16C)	30.00	20.00
60-84 months	FCEALMT(16D)	29.00	20.00
c. 24 kbps			
Month to Month	FCEALMT(24K)	\$48.00	\$75.00
12-23 months	FCEALMT(24A)	48.00	75.00
24-35 months	FCEALMT(24B)	47.00	20.00
36-59 months	FCEALMT(24C)	45.00	20.00
60-84 months	FCEALMT(24D)	44.00	20.00
d. 32 kbps			
Month to Month	FCEALMT(32K)	\$64.00	\$75.00
12-23 months	FCEALMT(32A)	64.00	75.00
24-35 months	FCEALMT(32B)	62.00	20.00
36-59 months	FCEALMT(32C)	60.00	20.00
60-84 months	FCEALMT(32D)	58.00	20.00

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FRAME RELAY SERVICE**

F. Price List (Continued)

8. Gateway (Continued)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
e. 40 kbps			
Month to Month	FCEALMT(40K)	\$80.00	\$75.00
12-23 months	FCEALMT(40A)	80.00	75.00
24-35 months	FCEALMT(40B)	78.00	20.00
36-59 months	FCEALMT(40C)	75.00	20.00
60-84 months	FCEALMT(40D)	73.00	20.00
f. 48 kbps			
Month to Month	FCEALMT(48K)	96.00	75.00
12-23 months	FCEALMT(48A)	96.00	75.00
24-35 months	FCEALMT(48B)	93.00	20.00
36-59 months	FCEALMT(48C)	90.00	20.00
60-84 months	FCEALMT(48D)	87.00	20.00
g. 56 kbps			
Month to Month	FCEALMT(56K)	112.00	75.00
12-23 months	FCEALMT(56A)	112.00	75.00
24-35 months	FCEALMT(56B)	109.00	20.00
36-59 months	FCEALMT(56C)	105.00	20.00
60-84 months	FCEALMT(56D)	102.00	20.00
h. 64 kbps			
Month to Month	FCEALMT(64K)	128.00	75.00
12-23 months	FCEALMT(64A)	128.00	75.00
24-35 months	FCEALMT(64B)	125.00	20.00
36-59 months	FCEALMT(64C)	120.00	20.00
60-84 months	FCEALMT(64D)	116.00	20.00
i. 128 kbps			
Month to Month	FCEALMT(128)	256.00	75.00
12-23 months	FCEALMT(12A)	256.00	75.00
24-35 months	FCEALMT(12B)	249.00	20.00
36-59 months	FCEALMT(12C)	241.00	20.00
60-84 months	FCEALMT(12D)	232.00	20.00

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F. Price List (Continued)

8. Gateway (Continued)

	<u>SAE Code</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
j. 256 kbps			
Month to Month	FCEALMT(256)	\$511.00	\$75.00
12-23 months	FCEALMT(25A)	511.00	75.00
24-35 months	FCEALMT(25B)	498.00	20.00
36-59 months	FCEALMT(25C)	482.00	20.00
60-84 months	FCEALMT(25D)	465.00	20.00
k. 512 kbps			
Month to Month	FCEALMT(512)	\$1,023.00	\$75.00
12-23 months	FCEALMT(51A)	1,023.00	75.00
24-35 months	FCEALMT(51B)	997.00	20.00
36-59 months	FCEALMT(51C)	963.00	20.00
60-84 months	FCEALMT(51D)	929.00	20.00
l. 768 kbps			
Month to Month	FCEALMT(768)	\$1,534.00	\$75.00
12-23 months	FCEALMT(76A)	1,534.00	75.00
24-35 months	FCEALMT(76B)	1,495.00	20.00
36-59 months	FCEALMT(76C)	1,445.00	20.00
60-84 months	FCEALMT(76D)	1,394.00	20.00

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Case No(s). 90-5041-TP-TRF

Summary: Tariff electronically filed by Ms. Glenda L. Munson on behalf of United Telephone Company of Ohio d/b/a Embarq