

GENERAL EXCHANGE TARIFF
PSCK NO. 3

CINCINNATI BELL TELEPHONE COMPANY

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PUBLIC PACKET SWITCHED NETWORK SERVICE

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1. DESCRIPTION OF SERVICE

Public Packet Switched Network (PPSN) Service is a public data network service which utilizes packet technology and analog and digital transmission facilities to provide economical common user switched data transport for traffic of X.25 and X.75 protocol. The network service interconnection meets the transport requirements of a broad variety of data customers such as information and service providers, high speed terminal users and providers of concentrators (either customer or Telephone Company provided). Customers connect directly to a Telephone Company provided packet switched port connection at a X.25 or X.75 protocol via analog or digital facilities provided by the Access Service Tariff PSCK NO. 2 at speeds of either 2.4, 4.8, 9.6 or 56 Kbps.

InterLATA public data networks are permitted access to the PPSN via access service arrangements as set forth in the appropriate Access Service Tariff of the Telephone Company.

- a. The PPSN supports protocol conversion, a service offered on an unregulated basis only.
- b. The PPSN is available to local exchange service customers having individual line residence or nonresidence service, private line service customers, Centrex customers, and ESSX-1 Service customers, subject to the availability of appropriate Telephone Company facilities.
- c. PPSN customers are required to subscribe to an adequate number of access lines as may be required, in the judgment of the Telephone Company, to adequately handle incoming calls without impairing the Telephone Company's service to others.

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1. DESCRIPTION OF SERVICE (Continued)

- d. The PPSN serving area is all network addresses in the Telephone Company's operating territory with access to the PPSN which are capable of receiving calls subject to Closed User Group requirements.
- e. Reverse Charging Acceptance will permit PPSN usage associated with calls placed by Dial Access or Direct Access customers to be billed on a per call basis to a Direct Access terminating address equipped for Reverse Billing Acceptance. Billing is detailed only for local calls.
- f. PPSN, as required by the Telephone Company, may be removed from service for maintenance purposes. Credit allowances are not applicable to the time period that PPSN is removed from service unless that time period exceeds one hour, in which case an appropriate credit may be negotiated.
- g. PPSN supports CCITT recommendations and optional facilities and will interface with customer equipment that meets these standards.

2. DEFINITIONS

BIT

A binary digit, the smallest unit of information in the binary system of notation.

CCITT

Consultative Committee for International Telephone and Telegraph. An international advisory committee set up under United Nations sponsorship to recommend standards for international communications.

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2. DEFINITIONS (Continued)

Character

An alphanumeric or symbolic unit (e.g., A-Z, 0-9, etc.) represented by 8 bits of data.

Concentrator

A PPSN network component which performs various routing and switching functions.

Kilosegment

One thousand segments.

Logical Channel

A transmission path within the packet switching network.

Network

The integrated communications facilities utilized by the Telephone Company in providing its public packet switched data communications service, which are comprised of packet switching and network access equipment.

Network Address

Numeric character sequence used to identify the originating and terminating locations of each virtual circuit made within the network.

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2. DEFINITIONS (Continued)

Network User Identification (NUI)

A numeric character sequence, defined by the Telephone Company, as a personal identification code for users to access the PPSN network. Also, this option is used to establish a local billing record.

Octet

A character of data information made up of eight successive bits of information (See character)

Packet

A continuous sequence of binary digits (bits) of information which is switched as an integral unit through the network. A packet contains up to 128 or 256 octets of customer data transported to or from a character-oriented station, plus additional transmission and error control information.

Packet Assembler/Disassembler (PAD)

The component which the Telephone Company may provide on an unregulated basis and which supports the customer interface functions such as, but not limited to, call initiation and transmission interface functions.

Packet Switch

The part of the network which performs primary switching and routing functions.

Permanent Virtual Circuit

A logical channel between two stations. No call establishment, call termination, or network address are associated with a permanent virtual circuit.

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2. DEFINITIONS (Continued)

Port Termination

A communications interface provided by the Telephone Company, through which the customer or an authorized user obtains connection to the network.

Protocol

A set of rules for conducting interactions between two or more parties. These rules consist of syntax (header structure), semantics (actions and reactions that are supposed to occur) and timing (relative ordering and duration of states and events). PPSN supports 1984 CCITT recommendations. Most 1980 CCITT recommendations are supported but may be subject to availability.

PPSN supports the following protocols:

Asynchronous Protocol

A form of protocol for X.3, X.28 and X.29 as outlined in the 1984 version of the CCITT recommendation.

Synchronous Protocol

A form of protocol that will support certain synchronous IBM 32XX Display System Protocols. For the purposes of this offering synchronous and bi-synchronous are synonymous terms. Provision of this protocol is subject to certain technical limitations.

X.24 Protocol

An international standard developed by the CCITT that provides the foundation for public packet switched networks.

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2. DEFINITIONS (Continued)

Protocol (Continued)

PPSN supports the following protocols: (Continued)

X.75 Protocol

An international standard developed by the CCITT that provides the foundation for both interstate and international interconnection of individual packet switched networks.

Segment

A continuous sequence of binary digits (bits) of information within a packet. A segment has a billable length of up to 64 octets of customer data transmitted to or from a character-oriented station.

Virtual Circuit

A logical channel established as a result of call establishment procedure to a network address that exists until either end of the channel initiates the call termination procedure.

3. REGULATIONS

The regulations, rates and charges specified in this section are applicable to PPSN Service and are in addition to the regulations set forth in the foregoing sections of this tariff.

a. Minimum Payment Period

The minimum payment period for a PPSN port connection is one month.

b. Payment of Rates, Charges and Deposits

The Telephone Company will bill in accordance with the provisions set forth in Section 2.2 of the Access Services Tariff PUCO NO. 2. The service usage charges specified in this section will be billed in arrears.

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3. REGULATIONS (Continued)

c. Credit Allowance for Interruptions

No credit is allowed for interruptions to service of less than sixty minutes. Interruptions of sixty minutes or over, which are reported to the Telephone Company and which are not due to the negligence or willful act of the customer, are credited at the proportionate monthly tariff charge in one hour multiples for each hour or major fraction thereof of interruption from receipt of the report.

d. Liability

The liability of the Telephone Company is specified in Section 2.3.B of the Access Services Tariff PUCO NO. 2.

e. Information the Customer Must Provide

When ordering service offered under this tariff the customer must provide the following information;

1. The number and location of port connections desired, including estimated usage for each port connection.
2. The initial set of software features and functions for each port connection.
3. The transmission speed for each port connection and data channel.

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3. REGULATIONS (Continued)

f. Types of Rates and Charges

1. Monthly Rates

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

2. Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e. installation of service, service rearrangements and service order administration). The three types of nonrecurring charges that apply to service are: installation of service, service rearrangements, and service order administration.

a. Installation

The nonrecurring charges for the installation of each service are set forth in Rates and Charges following.

b. Service Rearrangement

Service rearrangements are changes to existing services which do not result in either a change in the minimum payment period requirements or a change in the physical location of the PPSN Port Connection. The nonrecurring charge specified in 6.f following applies for subsequent changes to the software of PPSN ports. Changes from one existing service to another will be treated as the discontinuance of the existing service and the

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3. REGULATIONS (Continued)

f. Types of Rates and Charges (Continued)

2. Nonrecurring Charges (Continued)

b. Service Rearrangement (Continued)

installation of a new service. The nonrecurring charges described in (a) preceding will apply for this work. Moves that change the physical location of the point of termination are described in (3) following.

c. Service Order Administration

The nonrecurring charge for service order administration is applicable per customer request for installation and/or rearrangement of the PPSN services offered herein. The service order administration charge is set forth in 6.g following.

3. Moves

A move involves a change in the physical location of a point of termination at the customer's premises. Such moves are performed subject to the provisions set forth for the type of channel which connects the customer premises to the PPSN.

4. SPECIAL CONSTRUCTION

Special construction is provided in accordance with the regulations set forth in the Company's Special Construction Tariff F.C.C. No. 39.

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5. RATE ELEMENT DESCRIPTIONS

a. Channels for the Direct Connection of a Customer Premises to a Port of the PPSN

Voice Grade or Digital Data Service Channels offered in the Telephone Company's Access Service Tariff PUCO NO. 1 may be used to connect a customer premises directly to a port of the PPSN at either X.25 or X.75 protocol.

b. Port Connection

Connections are made directly to the Telephone Company packet switch by means of a dedicated port connection. Port connections operate at transmission speeds of 2.4, 4.8, 9.6 or 56 Kbps in support of X.25 or X.75 digital interfaces.

c. Virtual Call Establishment

A usage charge is applied to each attempt to establish a virtual call over a virtual circuit. The Virtual Call Establishment charge does not apply to the Fast Select call software option.

d. Fast Select

Fast Select is a feature of X.25 protocol in which customer data is sent in the initial Virtual Call Establishment. It permits the user to place up to 128 bytes of additional data in the call request or call clear packets. There is no Virtual Call Establishment charge incurred when using the Fast Select feature.

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5. RATE ELEMENT DESCRIPTIONS (Continued)

e. Kilosegment Usage Charge

Usage (or traffic) is measured in the number of kilosegments transported within a packet through the Telephone Company provided Public Packet Switched Network. For billing purposes, the monthly usage is based on kilosegments and such charges are billed to the customer responsible for the connection over which the kilosegments are transported.

Customers are not charged for segments generated internally by the network for the acknowledgement of information packets, nor are customers charged for any segments which are retransmitted by a network packet switch upon detection of a transmission error.

For Peak Hour Usage, as described in 6.d.1 following, the tiered pricing concept applies to the rate per kilosegment listed under usage level for all kilosegments transported within the specified usage level. Kilosegments, or fractions thereof, over-flowing into the next usage level are billed at the next rate level and so on until usage overflows to the last (or lowest) rate level. For all other usage the Off-Peak Hours Usage Rate specified in 6.d.2 following is applicable.

f. Optional Service Features

1. Incoming Calls Barred

Incoming calls to a DTE address are barred.

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5. RATE ELEMENT DESCRIPTIONS (Continued)

f. Optional Service Features (Continued)

2. Outgoing Calls Barred

Outgoing calls from a DTE address are barred.

3. Closed User Group (CUG)

A group of PPSN users which form a subnetwork within the packet switched network. Non-members of the CUG are precluded from making calls to the members of the CUG. Users may be a member of more than one CUG. Members of different Closed User Groups will not be permitted to communicate with each other. Both incoming and outgoing barred options are available within a Closed User Group.

4. Fast Select Acceptance

Authorizes the DCE to transmit to the DTE incoming calls which request the fast select facility.

5. Reverse Charging Acceptance

Authorizes the local DCE to pass to the subscribing DTE any calls requiring reverse charging.

6. Network User Identification

Enables the DTE to provide information to the network for billing, security or network management purposes on a per call basis.

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5. RATE ELEMENT DESCRIPTIONS (Continued)

f. Optional Service Features (Continued)

7. Hunt Group

An arrangement whereby multiple access lines share a single network address. A Hunt Group can be arranged for up to 30 lines served from the same central office. Incoming calls are distributed to insure that the least used access line is the next selected.

8. Call Redirection

Permits a virtual call to be established to a pre-specified alternate address if a destination address is not available.

9. Direct Call

When a terminal accesses PPSN it places a call to a predetermined destination.

10. Permanent Virtual Circuit

A virtual dedicated path between two points.

11. Call Detail

Provides a paper or magnetic tape record of all calls originated from a specific billing account. Call Detail is not available for Public Dial Access

12. Additional Logical Channel

Additional transmission path within a PPSN access line. Available on an X.25 interface only.

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6. RATES AND CHARGES

a. Channels for Direct Connection to a Port of the PPSN

Where access is provided by a Voice Grade Channel between the customer premises and a port of the PPSN. The rates and charges specified in Access Services Tariff PUCO NO. 2 are applicable.

Where access is provided by an appropriate Digital Data Service Channel between the customer premises and a port of the PPSN the rates and charges specified in the Telephone Company's Access Services Tariff PUCO NO. 2 are applicable.

b. Moves

Customer requested moves of service either to a different building on noncontinuous property or to a different building on the same continuous property will be made by the Telephone Company subject to the nonrecurring charges specified for the type of channel which connects the customer premises to the PPSN.

c. Port Connection

1. <u>Transmission Speed</u>	<u>Protocol Interface</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
2.4 Kbps	X.25	\$ 30.00	\$ 30.00	LDD24
4.8 Kbps	X.25	30.00	45.00	LDD48
9.6 Kbps	X.25	30.00	50.00	LDD96
56 Kbps	X.25	30.00	140.00	LDD56
9.6 Kbps	X.75	30.00	100.00	LDD97
56 Kbps	X.75	30.00	145.00	LDD57

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6. RATES AND CHARGES (Continued)

c. Port Connection (Continued)

2. Virtual Call Establishment

Per Call: \$ 0.01

3. Fast Select

Per Call: 0.03

d. Kilosegment Usage Charge

1. Peak Hour Usage Rates apply to kilosegments transported between the hours of 7:00 AM to 6:00 PM Monday through Friday and excluding the holidays specified in Off-Peak Hour Rate in "B" following.

<u>Usage Level/Peak Hour Rate</u>	<u>Monthly Rate/Kilosegment</u>
From 01 - 500	\$ 0.54
From 501 - 2300	0.48
From 2301 - 4200	0.43
All over 4201	0.38

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6. RATES AND CHARGES (Continued)

d. Kilosegment Usage Charge (Continued)

2. The Off-Peak Hour Usage Rate applies to the total number of kilosegments transported other than from 7:00 AM to 6:00 PM, Monday through Friday. The Off-Peak Hour Usage Rate also will apply to the 24-hour period during holidays of New Year's Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

<u>Usage Level/Off-Peak Hour Rate</u>	<u>Monthly Rate/Kilosegment</u>
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All Transported	\$ 0.33
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e. Optional Service Features

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
1. Incoming Calls Barred	\$ 10.00	\$ 5.00	LD91V
2. Outgoing Calls Barred	10.00	5.00	LD90V
3. Closed User Group Per Group Member	1.00	5.00	LDJ
4. Fast Select Acceptance	1.00	5.00	FSA
5. Reverse Charging Acceptance	5.00	10.00	LD4
6. Network User Identification	NONE	5.00	LOG

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6. RATES AND CHARGES (Continued)

e. Optional Service Features (Continued)

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
7. Hunt Group Each Address In Group	\$ 1.00	\$ 5.00	URM
8. Call Redirection	10.00	25.00	LRD
9. Direct Call	4.00	10.00	LJD
10. Permanent Virtual Circuit	4.00	5.00	LDV
11. Call Detail Per Line Printed	--- 0.02	55.00	
12. Additional Logical Channel, each	1.00	10.00	LD9A1

f. Subsequent Changes to Service

Changes requested after initial service establishment will incur a software change charge applied to each port for which changes are requested. The software change charge applies to any changes to software after service has been established. One charge applies per port for each request, regardless of the number of changes requested by the customer for that port.

	<u>Nonrecurring Charge</u>
Software Change Charge, per request:	\$ 150.00

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6. RATES AND CHARGES (Continued)

g. Service Order Administration Charge

Installations and/or rearrangements of the PPSN services offered herein will incur a service order administration charge. One charge applies per request regardless of the number of installations/rearrangements requested by the customer on that occasion.

Nonrecurring Charge

Service Order Administration Charge, per request: \$ 35.00

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