

ACCESS SERVICE

15. Public Data Network (PDN)¹

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15.1 General

15.1.1

Public Data Network (PDN) is a network service which provides transport for data services. The service utilizes packet switching technology (in which data is divided into blocks called "packets" with a fixed maximum length), and digital transmission facilities to provide common user switched data transport. The PDN consists of Packet Switches, Access Concentrators with ports and analog and digital facilities which provide for simultaneous two-way transmission of data signals at various speeds. PDN connects customers (end users) to customers (information providers, end users, Interexchange Carriers and other Packet Networks).

15.1.2

Customers access the PDN in three ways: by using exchange telephone service; by having direct access by way of LATA Access Service as described in the Special Services Tariff (Pa. P.U.C.-No. 304); and by having packet switch access by way of LATA Access as described in the Special Services Tariff (Pa. P.U.C.-No. 304).

15.1.3

The technical specifications for PDN service are as described in Verizon Publication TR 72211.

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15.1.4

PDN provides the ability to originate and terminate calls as follows:

(A) Exchange Service Access(1) Dial Access - Originate Only (up to 2.4 Kbps)(2) ISDN Direct - Originate and Terminate (up to 9.6 Kbps)(B) Direct Access - Originate and Terminate (up to 1.2, 2.4, 4.8 and 9.6 Kbps)(C) Packet Switch Access - Originate and Terminate (9.6 and 56 Kbps)

The originating and terminating messages are transported through the network in data packets. Data packets pass from the Access Concentrator to the Packet Switch in the originating or terminating direction. Packets remain in the proper sequence by means of the establishment of virtual circuits using transport capabilities of the X.25 protocol.

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(C) Indicates change.

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15.1 General (Cont'd)

15.1.5 PDN provides different billing options depending upon the type of customer access. The billing options are:

- (A) Dial Access - Reverse Charge Only.
- (B) Direct Access and ISDN Direct Access

(1) Originating calls:

- (a) Sent-Paid - Unless specifically identified on a call by call basis all originating traffic will be charged to the calling party.
- (b) Reverse Charge - Unless specifically identified on a call by call basis all originating traffic will be reverse charged to the called party.

(2) Terminating calls:

- (a) Reverse Charge Acceptance - Customers who previously select this option will accept the charges for all calls sent to the network address(es) assigned to them.
- (b) Reverse Charge Denied - Customers who previously select this option will be able to receive only those calls which have been billed to the originating caller.

(C) Packet Switch Access

- (1) Originating calls - see (B) (1) preceding.
- (2) Terminating - See (B) (2) preceding.

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15.2 Rate Categories15.2.1 Dial Access(A) Generic Dial Access

Generic Dial Access is initiated within the PDN-equipped LATA by dialing a PDN access number via the user's existing exchange line. Users will access these ports by dialing a telephone number and then must furnish, via the connected data terminal (DTE), the Network Address with which the calling user wishes to converse.

(B) Transaction Service

Transaction Service is initiated within the PDN-equipped LATA by dialing a PDN access number via the user's existing exchange line. Transaction Service is designed for on-line credit verification. Each Transaction consists of up to 12 packets of data transmitted. Multiple Transactions may occur per call. Users will access ports by dialing a telephone number and then must furnish, via the connected DTE, the Network Address with which the calling user wishes to communicate. The other transmission parameters are done automatically. Kilopacket Transport and Network Connection Time do not apply to Transaction Service. In addition, transmission speeds are limited to 300 and 1200 bps only.

(C) Auto Call Ports

Auto Call Port Service is initiated within the PDN-equipped LATA by dialing a PDN access number via the user's existing exchange line.

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15.2 Rate Categories (Cont'd)15.2.1 Dial Access (Cont'd)(C) Auto Call Ports (Cont'd)

Auto Call Port Service consists of specially programmed PDN dial-in ports, assigned to a unique customer and accessed by a telephone number, which allows the connection of dial-in terminal directly to a host data base (DTE) within the PDN equipped LATA or to an external DTE via the services of an Interexchange Carrier (IC). The connection is effected without the need for the originating DTE to specify call routing details on a per call basis. Essentially, as soon as the PDN dial-up modem "handshakes" with the modem of the originating DTE, a call request packet is transmitted to the terminating DTE and a virtual connection is established.

(D) Dedicated Dial Ports

Dedicated Dial Port service is initiated within the PDN-equipped LATA by dialing a PDN access number via a PBX Off-Premises Station or Toll Free Service dedicated to PDN access. Dedicated Dial Port service consists of specially programmed PDN dial in ports, assigned to a unique customer and accessed by using one of the above services, of the customer's choice. This allows the connection of dial-in terminals directly to a host data base (DTE) within the PDN equipped LATA or to an external DTE via the services of an Interexchange Carrier (IC). The connection is effected without the need for the originating DTE to specify call routing details on a per call basis. Essentially, as soon as the PDN dial-up modem "handshakes" with the modem of the originating DTE, a call request packet is then transmitted to the terminating DTE and a virtual connection is established.

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15.2 Rate Categories (Cont'd)15.2.2 Access Connection

The Access Connection rate element provides a dedicated connection to an Access Concentrator or a Packet Switch. There are two types of access connections, the Direct Access Connection and the Packet Switch Access Connection:

- (A) A Direct Access Connection provides the customer dedicated access through a modem to a port on the access concentrator at transmission speeds of up to 1.2, 2.4, 4.8 and 9.6 Kbps, with either asynchronous, or X.25 protocols.
- (B) A Packet Switch Access Connection provides the customer with a dedicated connection to a port on the packet switch at transmission speeds of 9.6 or 56 Kbps with either X.25 or X.75 protocols.

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15.2 Rate Categories (Cont'd)15.2.3 Network Usage

The Network Usage rate elements provide a customer the ability to send packets of data and the transport of those packets, to another customer. There are two types of Network Usage Charges: Network Connection Time and Kilopacket Transport.

(A) Network Connection Time

Network Connection Time provides a Dial Access customer the use of the network from the time the call is connected until it is terminated. Network Connection Time is billed to the terminating network address or Interexchange Carrier of the PDN dial access call.

(B) Kilopacket Transport

Kilopacket Transport provides for the routing of the packets over the PDN in both the originating and terminating directions. Usage charges are based on the number of kilopackets transmitted over the PDN for all types of access, except transaction service.

(C) Rate Table for Kilopacket Transport Time of Day Pricing

	MON	TUES	WED	THUR	FRI	SAT	SUN
8:00 AM							
to	Rate Period 1					#	#
*5:00 PM							
5:00 PM							
to	Rate Period 2						
*11:00 PM							
11:00 PM							
to	Rate Period 3						
*8:00 AM							

Rate period 2 applies for the holidays specified in Section 2.4.1(B) (3) (a) of this tariff, unless a lower rate would normally apply. The Rate Periods are listed in Section 15.5.2(B) following.

* To but not including
Rate Period 2 applies

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15. Public Data Network (PDN)¹15.2 Rate Categories (Cont'd)15.2.4 Optional Features

Optional Features provide the capability for Direct or Packet Switch Access customers to interact with the PDN as follows:

- (A) Closed User Group (CUG) - A CUG is a specific group of Data Terminals which interconnect with each other. Each customer's channel may be associated with as many as ten (10) CUGs. Each data terminal in a CUG can be arranged in one of the modes following:
- Terminating Access - The data terminal receives incoming calls only.
 - Originating Access - The data terminal makes outgoing calls only.
 - Unrestricted Access - The data terminal receives and makes both incoming and outgoing calls.
 - Denial of Terminating Calls - The data terminal receives incoming calls only from the data terminals in the CUG with which it is associated.
 - Denial of Originating Calls - The data terminal makes outgoing calls only to the data terminals in the CUG with which it is associated.
- (B) Monthly Detailed Connection File² - The monthly detailed connection file contains detailed call completion records associated with all customer channels within an account. This file is only available to the customer being billed for the service and contains all network usage. (C)
- (C) Multiple Channel Hunt Group - Multiple circuits can be arranged in a hunt group with a single Network Address. Terminating calls are distributed equally over the ports. Hunt groups can have a maximum of sixty-four circuits.

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² Available with X.25 and X.75 protocols only.

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15.2 Rate Categories (Cont'd)15.2.4 Optional Features (Cont'd)

- (D) Multiple Network Addresses (MNA) - Customers may obtain, for each direct or packet switch access connection, multiple addresses to which calls can be delivered according to the customer's predetermined specifications.
- (E) Permanent Virtual Circuit (PVC) - PVCs allow direct and packet switch access customers to establish a dedicated path which provides security and privacy between themselves and a specific location.
- (F) Packet Size Negotiation² - Provides the capability for a customer to transmit/receive packets containing a maximum of 256 octets (8 bits each) of data, or 2 packets. Default maximum packet size is 128 octets. (C)
- (G) Window Size Negotiation² - The window size is defined as the maximum number of unacknowledged packets allowed at any given time. Default window size is 2 packets. Negotiated maximum window size is 3 packets. (C)
- (H) Throughput Class Negotiation² - This function permits negotiation, on a per call basis, of the throughput classes for each direction of data transmission. (C)
- (I) Call Redirection - Call Redirection allows the customer's virtual calls to be automatically forwarded to an alternate destination if the original destination is busy, out of order, or has requested systematic redirection. The number of redirects per call is limited to one. Call Redirection is offered on an X.25 basis or on an Asynchronous and/or Bisynchronous basis; calls will not be redirected to an X.75 protocol access connection.
- (J) Mnemonic Addressing - Mnemonic Addressing allows the automatic translation of 3 or 4 character code-word into a data telephone number identifying the called address. This facility is available to a customer on Packet Switch Access and Direct Access.

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15.2 Rate Categories (Cont'd)15.2.4 Optional Features (Cont'd)

- (K) Fast Select Acceptance - This feature allows the called Data Terminal Equipment (DTE) to receive user data in the call set-up packet, when the user elects to originate a fast select call. If a fast select call is attempted to a DTE that does not have a Fast Select Acceptance feature, the call will not be completed. This feature is available with direct access, X.25 protocol. If this feature is requested subsequent to when service was established, the Rearrangement Charge specified in 15.5.4 applies.
- (L) Fast Select Request - This feature allows user data to be included in the originating call request packet sent from the calling Data Terminal Equipment (DTE) to the called DTE. The called or terminating DTE must be subscribed to the Fast Select Acceptance feature to receive Fast Select Request calls. The service can be provided in a restricted or unrestricted mode. In the unrestricted mode, the called DTE has an option to accept the call request and exchange data packets. In the restricted mode, the call request is cleared and only data associated with call set-up and clearing is exchanged.
- (M) Recognized Private Operating Authority (RPOA) Preselection - This feature allows the customer to preselect a preferred interexchange carrier (IC). The feature automatically selects that IC when calling Data Terminal Equipment (DTE) initiates a call that requires an IC, unless the user selects a different IC when the call is initiated. This feature is available with Direct Access Service. If this feature is requested subsequent to when service was established, the Rearrangement Charge specified in 15.5.4 applies.

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15. Public Data Network (PDN)¹ (C)15.2 Rate Categories (Cont'd)15.2.5 Rearrangement Charge

The Rearrangement Charge applies as follows:

- (A) The speed of a direct access connection or packet switch access connection is changed.
- (B) A change is required at the direct access port without changing the network address.
- (C) The protocol of a line is changed.
- (D) Port or protocol parameters are changed.
- (E) Existing channels are added to a closed user group.
- (F) Existing channels are added to a multiple channel hunt group.
- (G) Existing channels are established as part of a permanent Virtual Channel.
- (H) Existing Packet Size is changed.² (C)
- (I) Existing Window Size is changed.² (C)
- (J) Existing Throughput Class is changed.² (C)
- (K) Existing Fast Select Acceptance is changed.
- (L) Existing Fast Select Request is changed.
- (M) Existing RPOA Preselection is changed.

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² Only one Rearrangement Charge is applicable for changes to one or more of these features when requested at the same time. In addition, the appropriate rates and charges for LATA Access Service, as described in the Special Services Tariff (Pa. P.U.C.-No. 304), apply for each circuit connected to an Access Concentrator or Packet Switch. Local exchange service applies for all dial access. (C)

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15.3 Ordering Options and Conditions

PDN is ordered under the access order provisions as set forth in Section 5 preceding. The ordering of access to PDN is through Special Access Services, which provide the access circuits, billing options and optional features.

15.4 Provisions and Descriptions of Customer Access15.4.1 Dial Access

Dial Access is initiated by dialing a PDN access number via a customer's existing exchange line. Dial Access is provided by the Telephone Company from its local exchange services tariffs, and the charges specified therein apply for each completed call to the PDN access numbers. Auto Call Dial and Dedicated Dial Access support asynchronous protocol and transmission speeds of up to 2.4 Kbps. Transaction Service supports asynchronous protocol and transmission speeds of 300 bps and 1.2 Kbps. Generic Dial Access supports asynchronous protocol and transmission speeds of up to 2.4 Kbps.

15.4.2 Direct Access(A) Description

Direct Access is provided through channels (circuits) as defined in the Special Services Tariff (Pa. P.U.C.-No. 304) to connect the customer to a modem on the Access Concentrator. Direct Access supports the asynchronous and X.25 protocols. Each port has a unique network address. Direct access is provided with transmission speeds of up to 1.2, 2.4, 4.8 and 9.6 Kbps.

The types of Direct Access are described as follows:

(1) Asynchronous protocol:

Asynchronous protocol provides the capability of establishing a single communications link from the customer through the PDN.

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15.4 Provisions and Descriptions of Customer Access (Cont'd)15.4.2 Direct Access (Cont'd)(A) Description (Cont'd)(2) X.25 protocol:

X.25 protocol provides the capability of establishing multiple virtual circuits from the customer through the PDN. The recommended number of circuits established is a function of speed, as follows:

<u>Speed</u>	<u>Virtual Circuits</u>
1.2 Kbps	4
2.4 Kbps	8
4.8 Kbps	16
9.6 Kbps	32

All Optional Features described in 15.2.4 are available with X.25 protocol.

(B) Technical Specifications

The technical specifications defined in the Special Services Tariff (Pa. P.U.C.-No. 304) apply for channels provided to the Access Concentrators.

15.4.3 Packet Switch Access(A) Description

Packet Switch Access is provided through channels (circuits) as defined in the Special Services Tariff (Pa. P.U.C.-No. 304) to connect a customer directly to a port on the Packet Switch. This arrangement supports high speed 9.6 or 56 Kbps channels and either the X.25 or X.75 protocol. The X.75 protocol provides load distribution. Packet Switch Access has the capability of establishing multiple virtual circuits links from the customer through PDN.

(1) X.25 Protocol:

The recommended number of virtual circuits established is determined by the speed as follows:

<u>Speed</u>	<u>Virtual Circuits</u>
9.6 Kbps	128
56 Kbps	256

All optional features described in 15.2.4 are available with X.25 protocol.

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15.4 Provisions and Descriptions of Customer Access (Cont'd)15.4.3 Packet Switch Access (Cont'd)(D) Dedicated Dial Ports

The rates established for Dedicated Dial Ports include the ports themselves and the associated modems. The PBX Off-Premises Station or Toll Free Service dial access to the Dedicated Dial Port(s) is ordered separately by the customer from the appropriate tariff.

NOTE: The customer, at service provisioning time, must specify any optional features, as well as the destination Network Address and the appropriate Interexchange Carrier.

Asynchronous Protocol

		<u>USOC</u>	<u>Monthly Charge</u>	<u>Installation Charge</u>
Dedicated Dial Port				
Initial	-	LGY	\$112.00	\$100.00
Additional	-	LGZ	62.00	100.00

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(C)

Material now appearing on this page previously appeared on Third Revised Sheet 634A.

(C) Indicates Change

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15.4 Provisions and Descriptions of Customer Access (Cont'd)15.4.3 Packet Switch Access (Cont'd)(A) Description (Cont'd)(2) X.75 Protocol:

The recommended number of multiple virtual circuits established is determined by the speed as follows:

<u>Speed</u>	<u>Virtual Circuits</u>
9.6 Kbps	128
56 Kbps	256

All optional features described in 15.2.4 are available with X.75 protocol.

(B) Technical Specifications

The technical specifications defined in the Special Services Tariff (Pa. P.U.C.-No. 304) apply for channels provided to the packet switch.

(C) Temporary "Takedown"

With prior written notice to the Telephone Company, a Packet Switch Access customer may request temporary takedown (removal from service) of a packet switch access port. "Takedown" procedures are described in Verizon Publication TR 72211.

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The credit allowance for Service Interruptions for the LATA Access Connections specified in Section 2.4.4 or for the PDN elements themselves does not apply during the period of such temporary takedown.

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15. Public Data Network (PDN)¹ (C)15.5 Rates and Charges² (C)15.5.1 Access Connection

(A) <u>Direct Access:</u>		<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(1) <u>Asynchronous Protocol</u> , (For transmission speeds of:)				
- 1.2 Kbps	LPP12		\$35.00	\$73.00
- 2.4 Kbps	LPP24		42.00	73.00
- 4.8 Kbps	LPP48		65.00	73.00
- 9.6 Kbps	LPP96		85.00	73.00
		<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(1) <u>X.25 Protocol</u> , (for transmission speeds of:)				
- 1.2 Kbps	LDZ12		\$35.00	\$73.00
- 2.4 Kbps	LDZ24		42.00	73.00
- 4.8 Kbps	LDZ48		65.00	73.00
- 9.6 Kbps	LDZ96		85.00	73.00

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² Flexibly Priced. (C)

(C) Indicates change.

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15. Public Data Network (PDN)¹ (C)15.5 Rates and Charges² (Cont'd) (C)15.5.1 Access Connection (Cont'd)(B) Packet Switch Access:(1) X.25 Protocol,

(Per port connected for speeds of:)

- 9.6 Kbps	LDD96	300.00	None
-56.0 Kbps	LDD56	550.00	None

(2) X.75 Protocol,

(Per port connected for speeds of:)

- 9.6 Kbps	LDD97	300.00	None
-56.0 Kbps	LDD57	550.00	None

(C) Auto Call Ports:

The rates established for Auto-Call Ports include the ports themselves, the associated modems, and central office "cross connections" and telephone numbers.

NOTE: The customer, at service provisioning time, must specify any optional features, as well as the destination Network Address and the appropriate Interexchange Carrier, if used.

ASYNCHRONOUS PROTOCOL

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Initial Auto Call Port	LJP	\$125.00	\$100.00
Additional Ports, each	LRQ	72.00	100.00

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15. Public Data Network (PDN)¹ (C)15.5 Rates and Charges² (Cont'd) (C)15.5.2 Network Usage(A) Network Connection Time

Per Dial Access Minute (or fraction thereof)

(1) Generic Port² Rate (C)

- Initial minute	\$.03
- Each additional minute	.01

(2) Transaction Service² (C)

- Per transaction	.02
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(B) Kilopacket Transport³ (C)

(Per Kilopacket, or fraction thereof)

<u>No. of Kilopackets</u>	<u>Rate Period 1</u>	<u>Rate Period 2</u>	<u>Rate Period 3</u>
Up to 100	\$.45	\$.41	\$.25
Up to 500	.44	.40	.25
Up to 2000	.43	.39	.25
Up to 3000	.42	.38	.25
Up to 4000	.41	.37	.25
Up to 5000	.40	.36	.25
Up to 6000	.39	.36	.25
Over 6000	.38	.36	.25

For example, a customer who used 3800 kilopackets during Rate Period 1 would be billed \$.41 for each kilopacket transported. A customer who used 490 kilopackets during Rate Period 2 would be billed \$.40 for each kilopacket transported.

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³ The rate schedule time periods are defined in Section 15.2.3(C) - Rate Table for Time of Day Service. (C)

Material previously appearing on this page now appears on Original Sheet 632A and material now appearing on this sheet previously appeared on Second Revised Sheet 635.

(C) Indicates change.

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15. Public Data Network (PDN)¹ (C)15.5 Rates and Charges² (Cont'd) (C)15.5.3 Optional Features

	<u>USOC</u>	<u>Monthly Rate</u>
(A) Closed User Group		
- Per channel, per group	LDJ	\$ 10.00
(B) Monthly Detailed Connection File		
- Per billing account	MAJ1T	230.00
(C) Multiple Channel Hunt Group		
- Per hunt group	LDM	10.00
(D) Multiple Network Addresses		
- Per 100 number	LDQ	75.00
(E) Permanent Virtual Circuit		
- Each	LDV	10.00
(F) Packet Size Negotiation ³ (C)		
- Each	LNP	10.00
(G) Window Size Negotiation ³ (C)		
- Each	LNW	10.00
(H) Throughput Class Negotiation ³ (C)		
- Each	LD1	10.00

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³ In addition, if installed subsequent to the initial installation, a nonrecurring charge as specified in 15.5.4. following will apply. (C)

Material previously appearing on this page now appears on Fourth Revised Sheet 636.

(C) Indicates change.

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15. Public Data Network (PDN)¹ (C)15.5 Rates and Charges² (Cont'd) (C)15.5.3 Optional Features

	<u>USOC</u>	<u>Nonrecurring Charges</u>
(I) Call Redirection ³ (C)		
- Each	LRD	\$ 25.00
(J) Mnemonic Addressing ³ (C)		
- Each	LJE	150.00
(K) Fast Select Acceptance, per access connection.....	ICB	ICB
(L) Fast Select Request, per access connection.....	ICB	ICB
(M) RPOA Preselection, per access connection.....	ICB	ICB

15.5.4 Rearrangement Charge

	<u>USOC</u>	<u>Nonrecurring Charges</u>
- Per channel, per group.....	X25	\$70.00

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³ In addition, if installed subsequent to the initial installation, a (C)
nonrecurring charge as specified in 15.5.4. following will apply.

Some material previously appearing on this page now appears on Second Revised Sheet 635.

(C) Indicates change.