

ACCESS SERVICE

8. ADVANCED COMMUNICATIONS NETWORKS

ALPHABETICAL BY SUBJECT PAGE

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ALPHABETICAL BY SUBJECT

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL

Advanced Communications Networks (ACS) consists of the Public Packet Switching Network (PPSN). (C)

8.1.1 SPECIAL CONSTRUCTION

There may be occasions when the service is not available due to facility limitations, or where it may be necessary to construct such facilities as either normal or Special Construction. If Special Construction is involved, the regulations as set forth in CenturyLink Operating Companies Tariff F.C.C. No. 12, apply. (D)

8.1.2 ORDER MODIFICATIONS

PPSN are ordered under the Access Order provisions as set forth in Section 5, preceding. (C)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL(Cont'd)

8.1.3 MOVES

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

- The network interface at the customer's premises
- The customer's premises

The charges for the move are dependent upon whether the move is to a new location within the same building or to a different building.

A. Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half of the nonrecurring charge for the service termination affected. There will be no change in the minimum period requirements.

B. Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the moved services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service. (C)

As of May 29, 1995 moves to a different building with an upgrade in transmission speed for customers subscribing to pricing plans in this Section will be subject to the Termination Liability and Waiver Plan as set forth in 8.1.5. (C)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL (Cont'd)

8.1.4 RESERVED FOR FUTURE USE

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL

8.1.4 RESERVED FOR FUTURE USE (Cont'd)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL (Cont'd)

8.1.5 TERMINATION LIABILITY AND WAIVER POLICY

A. General

Termination Liability and Waiver Policy provides the terms and conditions for customers subscribing to Pricing Plans as set forth in each Pricing Plan. As of May 29, 1995 new customers subscribing to ACS Pricing Plans are subject to the Termination Liability and Waiver Policy terms and conditions in lieu of the Discontinuance Charges and Upgrades in Service and Transmission Speed as set forth in the Pricing Plans.

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If the customer chooses to discontinue all or a portion of the service prior to the expiration of the fixed period, termination charges, as set forth in B., following, will apply.

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL

8.1.5 TERMINATION LIABILITY AND WAIVER POLICY (Cont'd)

B. Termination Liability

If a customer chooses to discontinue the entire service or a portion of the service prior to the expiration of the fixed period service, termination charges apply (unless the customer satisfies the conditions specified in the Waiver Policy as set forth in C., following).

Should the customer choose to discontinue fixed period service prior to completion of the minimum service period, termination charges will apply. The termination charge is 100% of the minimum billing level for the remaining months of the minimum service period, plus 15% for Public Packet Switching.

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL

8.1.5 TERMINATION LIABILITY AND WAIVER POLICY

B. Termination Liability (Cont'd)

The minimum billing level is used to calculate the termination charge. The minimum billing level for Packet Switching is 100% of the total monthly rates for the rate elements being discontinued

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL

8.1.5 TERMINATION LIABILITY AND WAIVER POLICY

B. Termination Liability (Cont'd)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 RATE REGULATIONS

8.1.5 TERMINATION LIABILITY AND WAIVER POLICY

B. Termination Liability (Cont'd)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 RATE REGULATIONS

8.1.5 TERMINATION LIABILITY AND WAIVER POLICY

B. Termination Liability (Cont'd)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL

8.1.5 TERMINATION LIABILITY AND WAIVER POLICY (Cont'd)

C. Waiver Policy

A waiver of the termination charge as set forth in B., preceding, may occur if the customer moves to a different building within the Company territory or migrates to another Company service or transmission speed. When the customer is purchasing these services to offer to third party end users, the end user must be the same for both the old and new service. In the case of a move to a different building, the end user must be the same at the old and new location. In the case of a migration to another Company service or transmission speed, the end user must be the same for the original service and the new service or transmission speed at the current location. All of the following conditions must be met:

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- The customer must satisfy the minimum service period requirement--should the customer choose to discontinue fixed period service prior to completion of the minimum service period, termination charges, as is set forth in B., preceding, will apply;
- The total value of the new service must be equal to or greater than 115% the remaining value of the existing pricing plan service (nonrecurring charges and Special Construction charges will not be used towards the Waiver calculation);
- The order to disconnect the existing service and the order for the new service are received by the Company at the same time and both orders must reference the application of the waiver policy;
- The new service due date must be within 30 days of the due date of the disconnection of the old service, unless the installation is delayed due to Company reasons;
- New minimum service period applies to the new service, except as set forth in 8.3.4.B., following.
- The customer agrees to pay all outstanding recurring and nonrecurring charges (these charges will not be included in the new service pricing plan); and
- Applicable nonrecurring charges apply and are the charges in effect at the time the service is changed, except as set forth in 8.3.4.

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.1 GENERAL****8.1.5 TERMINATION LIABILITY AND WAIVER POLICY (Cont'd)****D. Nonappropriations Clause**

Termination Liability and Waiver Policy does not apply to ACS Pricing Plan services purchased by local, State or Federal government entities (or to customers who have purchased services solely for resale to local, State or Federal government entities) when they are discontinued prior to the completion of the fixed period service only when all of the following conditions are met:

- The service(s) purchased by the local, State or Federal government entity or by customers that have purchased services for resale to local, State or Federal government entities are utilized solely for provision of services for that local, State or Federal government entity,
- Funding for the fixed period service ordered by the authorized local, State or Federal government entity is included in the budget request for each fiscal period appropriation sufficient to cover the authorized local, State or Federal government entity's obligations under the fixed period service for that fiscal period,
- Nonappropriation may not be used as a means of terminating the service to acquire a functionally similar product or service,
- The local, State or Federal government entity ordered the fixed period service under the good faith belief that moneys in amounts sufficient to discharge its obligations could and would lawfully be appropriated and be made available for this purpose and,

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.1 GENERAL****8.1.5 TERMINATION LIABILITY AND WAIVER POLICY****D. Nonappropriations Clause (Cont'd)**

- The local, State or Federal government entity or the customer who ordered the service on their behalf, must provide the Company notarized documents agreed upon by both the Company and the customer, showing that the entity is allotted insufficient funds for the remainder of the then current fiscal period (or for a succeeding fiscal period) by appropriation, appropriation limitation or grant to continue payments under the fixed period service and has no other funding source lawfully available to it for such purpose.

The fixed period service may be terminated by giving the Company not less than 30 days written notice. Should the customer receive funding for the cancelled service prior to physical disconnect of service, the customer may cancel the disconnect order per Section 5. Upon termination, the local, State or Federal government entity or the customer who ordered the service on their behalf, shall pay all applicable rates and nonrecurring charges of the fixed period service incurred through the date of termination and through the end of the then current fiscal period to the extent of lawfully available funds.

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL (Cont'd)

8.1.6 RESERVED FOR FUTURE USE

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL

8.1.6 RESERVED FOR FUTURE USE (Cont'd)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL (Cont'd)

8.1.7 RESERVED FOR FUTURE USE

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8. ADVANCED COMMUNICATIONS NETWORKS

8.1 GENERAL (Cont'd)

8.1.8 RESERVED FOR FUTURE USE

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ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK****8.2.1 GENERAL**

Public Packet Switching Network (PPSN) is a service, which utilizes packet switching technology and digital transmission facilities to provide common user switched data transport. PPSN consists of Packet Switch Nodes (PSN), Packet Switch Service Points (PSSPs) with modems or data service units (DSUs) and digital facilities. PPSN provides for simultaneous two-way transmission of data signals at various speeds within a PSSP, between two PSSPs, or between a PSSP and a PSN. PPSN connects customers to other customers (end users, Information Service Providers, Interexchange Carriers and other Packet Networks) served from PSSPs and PSNs.

Messages are transported through the network in data packets. Packets remain in the proper sequence by means of the establishment of virtual circuits using transport capabilities of the X.25 or X.75 protocols.

Customers may access the PPSN at those wire centers where PSSPs and/or PSNs are located. These locations are listed in the National Exchange Carrier Association, Inc., Tariff F.C.C. No. 4.

A. Types of Access

PPSN provides the ability for customers to originate or terminate data calls to other customers connected to the service. The type of service available to a customer is dependent on the manner in which the customer accesses the network. There are five types of access available:

- Public Dial Access (to Packet Switch Service Points)
- PSSP Access (via Private Line Transport Service)
- PSN Access (via Private Line Transport Service)
- Private Dial Access (to Packet Switch Service Points)

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK****8.2.1 GENERAL****A. Types of Access (Cont'd)****1. Public Dial Access (to Packet Switch Service Points)**

Customers may access the PPSN Service Public Dial Access ports at PSSPs by dialing the 7- or 10-digit telephone number assigned to the port. The rates and charges for the circuit-switched call placed over the voice telephone network are not included in this service. The charges for the circuit-switched call will be charged by the vendor of that service directly to the customer. In addition, the rates and charges for exchange services are not included.

Public Dial Access ports provide X.3, X.28 and X.29 asynchronous protocol connections at 300 and 1200 bps, 2.4 and 9.6 kbps and may originate calls to PSSP and PSN Access Ports only. All calls originated from Public Dial Access Ports must be billed to the called party (Reverse Charge). If the called party does not accept the charges, the call will be blocked and cleared.

2. PSSP Access (Via Private Line Transport Service)

Customers may access the PPSN Service at PSSPs via analog or digital Private Line Transport Service channels as described in Section 7, preceding. Analog Private Line Service - Voice Grade, VG6 or VG10, channels may be used to access the analog ports or Digital Data Service channels may be used to access the synchronous digital ports.

PSSP Access Ports may be either analog or digital synchronous X.25 protocol. Analog ports provide synchronous connections to the PSSP at speeds of 2.4, 4.8, or 9.6 kbps with X.25 protocol.

PSSP Access Ports may both originate and terminate calls (messages) as described following:

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.1 GENERAL

A. Types of Access

2. PSSP Access (Via Private Line Transport Service) (Cont'd)

a. Originating Calls

Calls may be placed to other PSSP Access Ports or to PSN Access Ports. Originating calls are initiated by the PSSP Access customer and are billed according to the billing option selected as follows:

Prepaid

Unless specifically identified on a call by call basis all originating traffic will be charged to the calling party.

Reverse Charge Billing

Unless specifically identified on a call by call basis all originating traffic will be reverse charged to the called party.

b. Terminating Calls

Terminating calls may be received from originating Dial Access Ports, PSSP Access Ports, or PSN Access Ports. The types of calls received are dependent on the billing option selected as follows:

Reverse Charge Acceptance

Customers who select this option will accept the charges for all calls sent to the network address(es) assigned to the customer.

Reverse Charge Denied

Customers who select this option will only be able to receive calls that have been billed to the originating caller (prepaid). When this option is elected, calls from dial access customers cannot be received.

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK****8.2.1 GENERAL****A. Types of Access (Cont'd)****3. PSN Access (Via Private Line Transport Service)**

Packet Switch Node (PSN) Ports provide the customer with direct access to a Packet Switch Node. The customer may access the PSN Ports via Analog Private Line Service - Voice Grade, VG6 or VG10, or Digital Data Service channels as described in Section 7. PSN Access Ports may be either X.25 or X.75 protocol connections at speeds of 9.6 kbps analog or 9.6 or 56 kbps digital.

PSN Access Ports may both originate or terminate calls (messages) as described following:

a. Originating Calls

Originating calls may be placed to other PSN Access Ports or to PSSP Access Ports. Originating calls are initiated by the PSN Access customer and are billed according to the default billing option selected:

Prepaid

Unless specifically identified on a call by call basis all originating traffic will be charged to the calling party.

Reverse Charge Billing

Unless specifically identified on a call by call basis all originating traffic will be reverse charged to the called party.

b. Terminating Calls

Terminating Calls may be received from originating Private or Public Dial Access Ports, PSSP Access Ports or PSN Access Ports. PSN Access customers must subscribe to Reverse Charge Acceptance.

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK****8.2.1 GENERAL****A. Types of Access (Cont'd)****4. Private Dial Access (to Packet Switch Service Points)**

Customers may access the PPSN Private Dial Access ports at PSSPs by dialing the unique 7- or 10-digit telephone number assigned to the port(s). The rates and charges for the circuit switched call placed over the voice telephone network are not included in this service. The charges for the circuit switched call will be charged by the vendor of that service directly to the customer.

Private Dial Access ports provide X.3, X.28 and X.29 asynchronous protocol connections at 300 and 1200 bps, 2.4 and 9.6 kbps and synchronous X.32 protocol connections at 9.6 kbps. Private Dial Access ports may originate calls to PSSP and PSN Access ports only. All calls originating from Private Dial Access ports are billed according to 2.a., preceding.

The Private Dial Access port includes a connection to the local switched telecommunications network for the termination of voice telephone network calls at the PSSP. This connection does not provide for a listing in the local exchange telephone directory, and may be arranged as a single line or, for multiple lines, they may be provided in a hunting arrangement.

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK****8.2.1 GENERAL (Cont'd)****B. Performance and Interconnection Specifications**

PPSN Service provides high quality transport of data using packet switching and digital transmission facilities. The customer shall provide data terminal equipment in accordance with the interface specifications as described in the Qwest Corporation Technical Publication PUB 77359. Flexible interconnection arrangements are available to the customer as described following:

1. Public Dial Access

Public Dial Access is initiated by the customer dialing the PSSP access number (NPA) N29-2929 via the circuit switched telephone network. Dial Access supports asynchronous protocol only at transmission speeds of 300 and 1200 bps and 2.4 and 9.6 kbps.

- Dial access is not recommended from multiparty exchange service.
- To preclude operator interruptions, public dial access is not recommended from a coin operated telephone except on a third party or credit card basis.

2. PSSP Access

PSSP Access is provided through channels (circuits) as defined in Section 7, preceding, to connect the customer through a modem or data service unit (DSU) to a port on the PSSP. PSSP Access supports synchronous X.25 protocol and has a unique network address.

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK****8.2.1 GENERAL**

- B. Performance and Interconnection Specifications
2. PSSP Access (Cont'd)

The X.25 protocol provides the capability of establishing multiple virtual communication links from the customer through the PPSN Network. X.25 protocol ports will interface with analog or digital channels. Analog speeds are 2.4, 4.8 and 9.6 kbps. Digital speeds are 2.4, 4.8, 9.6, and 56 kbps.

3. PSN Access

PSN Access is provided through channels (circuits) as defined in Section 7, preceding, to connect a customer directly to a port on the PSN. This arrangement supports high speed 9.6 or 56 kbps channels and either X.25 or X.75 protocol. X.75 protocol provides load distribution. PSN Access has the capability of establishing multiple virtual communication links from the customer through the PPSN.

Analog access is available only at 9.6 kbps. Digital access is available at 9.6 and 56 kbps.

4. Private Dial Access

Private Dial Access is provided through the voice telecommunications network, as defined in 8.2.1.A.4., preceding, to connect the customer, through an analog modem, to a port on the PSSP. Private Dial Access supports asynchronous (X.3, X.28, X.29) protocol only at transmission speeds of 300 and 1200 bps and 2.4 and 9.6 kbps and synchronous (X.32) protocol only at a transmission speed of 9.6 kbps.

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.1 GENERAL (Cont'd)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK (Cont'd)

8.2.2 REGULATIONS

A. General

1. PSSP and PSN access customers must subscribe to an adequate number of channels to handle terminating calls in order not to impair the performance of PPSN.
2. Multiple Network Addresses are available in blocks of 10. One address is included with the port.

B. Rate Regulations

1. The minimum service period for PPSN monthly rate categories is 1 month. The minimum period for Public Packet Switching Pricing Plan is 12 months.
2. For dial access, the minimum usage per call for the Network Connection Time is one minute.
3. The minimum usage per call for Packet Transport is one segment.
4. The minimum charge for all Private Line Transport Services channels connected to PPSN is as specified in Section 7, depending upon the degree of Pricing Flexibility granted to the customer's wire center.

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ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK (Cont'd)****8.2.3 RATE ELEMENTS**

There are four rate categories which may apply to the PPSN Service:

- PSSP, PSN, and Private Dial Port Access Connection
- Network Usage (Including Dial Access)
- Port Features
- Rearrangement Charge

(C)

In addition, the rates and charges for Private Line Transport Service apply for each private line channel between a customer's designated premises and a PSSP or PSN port. Application of the rates and charges apply as described in Section 7, depending upon the degree of Pricing Flexibility granted to the customer's wire center. The appropriate vendor's rates apply for circuit switched calls to dial access ports. In addition, rates and charges for exchange services are not included.

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A. PSSP, PSN, and Private Dial Ports Access Connections

The Access Connection, Access Port rate category provides a dedicated connection at a PSSP or PSN. The Private Dial Access port provides for a local exchange switched connection at the PSSP. There are two types of dedicated access ports, the PSSP Access Port described in 1., following, and the PSN Access Port described in 2., following. The Private Dial Access Port is described in 3., following.

1. PSSP Access Port provides the customer with a dedicated analog or digital access through a modem or Data Service Unit (DSU) to a port on a PSSP. Transmission speeds of 2.4, 4.8, 9.6, and 56 kbps with X.25 protocol are available.

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK****8.2.3 RATE ELEMENTS****A. PSSP, PSN, and Private Dial Ports Access Connections (Cont'd)**

2. PSN Access Port provides the customer with dedicated analog or digital access through a modem or DSU to a port on the PSN. Transmission speeds of 9.6 or 56 kbps with X.25 or X.75 protocols are available.
3. Private Dial Access port provides the customer with an analog access, via the public switched network, to a port on a PSSP. Transmission speeds of 300 and 1200 bps and 2.4 and 9.6 kbps with X.3, X.28, X.29 asynchronous protocol and 9.6 kbps with X.32 synchronous protocol are available.

B. Network Connect Time (Dial Access Only)

Dial Access Usage provides for the use of a Dial Access Port other than Private Dial Access Ports, from the time the call is connected until it is terminated. The usage is billed to the terminating network address of the PPSN dial access call on a per minute of connect time basis rounded up to the next whole minute. Usage will be rated at the day rate for that portion of the call in effect during the day rate period (6:00 a.m. 6:00 p.m.) and at the night rate for the portion of the call in effect during the night rate period (after 6:00 p.m. and before 6:00 a.m.) as measured at the Signaling Network Control Center, Denver, Colorado.

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.3 RATE ELEMENTS (Cont'd)

C. Port Features (C)

The PSSP and PSN Access customers may select the following port features. (C)
Some of these features are offered at no additional monthly charge. See 8.4.3, (C)
following.

1. Access (Asynchronous Only) - One of these three must be selected:
 - a. Incoming Calls Barred - The access port is prevented from accepting incoming virtual calls.
 - b. Outgoing Calls Barred - The access port is prevented from placing outgoing virtual calls.
 - c. Two Way Access - The access port is capable of accepting incoming and placing outgoing calls.
2. Auto Call (Asynchronous only) - Allows the subscriber to access a single, predefined address in lieu of the normal call initiation process. The port may be limited to the sole access of this single address. Where available, the subscriber may override the "Auto Call" option and call another address.
3. Call Redirection (Asynchronous and X.25) - At a customer request or in the event of a port failure calls will be directed to a single alternate address. This feature requires the customer to have an alternate port and line designated for this purpose. This feature works automatically concurrent with call initiation. (C)
4. Closed User Group (CUG) (Asynchronous, and X.25) - Provides transmission via virtual channels among several specific network addresses arranged into a subnetwork. Each network address may be arranged in a CUG with as many as 10 CUG's available per subscribing host. CUG options are: (C)
 - a. CUG Incoming Access Barred - Allows a member of the CUG to originate calls to other members of that CUG, but not receive incoming calls from members of that CUG. (C)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.3 RATE ELEMENTS

C.4 Port Features (Cont'd)

- b. CUG with Incoming Access - Allows a member of a CUG to receive incoming calls from any Data Terminal Equipment (DTE) not in that CUG or from any DTE within that CUG with the "CUG with Outgoing Access" feature. (C)
- c. CUG Outgoing Access Barred - Allows a member of a CUG to receive calls from other members of that CUG, but not originate any calls to members of the CUG. (C)
- d. CUG with Outgoing Access - Allows a member of a CUG to make outgoing calls to any DTE not in that CUG and to any DTE within that CUG with the "CUG with Incoming Access" feature.
- e. CUG Access Only - No incoming or outgoing calls allowed outside of that CUG. (C)
- 5. Fast Select Acceptance (Asynchronous and X.25) - Permits the request of up to 124 octets of user data in the call initiation packet and acceptance of up to 124 octets of data in the call termination packet. Additional data packets can be accepted following the acceptance of the call initiation packet. (C)
- 6. Flow Control Parameters (Asynchronous, X.25 and X.75) - Permits negotiation on a per call basis of the flow control parameter window size for each direction of data transmission in the network. Window size values of two through seven are supported. Default value is two. Maximum packet size of 256 octets is supported. Default packet size is 128 octets. (C)
- 7. Link Level Parameters (X.25 and X.75) - Allows the subscriber to specify link level, acknowledgment timer, number of retransmission attempts, and frame size. (C)
- 8. Logical Channel (X.25 and X.75) - Allows the DTE to derive multiple logical channels from a single physical access line. This is accomplished by specifying the logical channel number on every packet that crosses the Network interface. (C)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.3 RATE ELEMENTS (C)

C. Port Features (Cont'd)

9. Logical Channel Layout (X.25 and X.75) - Permits the arrangement of logical channels to be configured as incoming, outgoing, two way and/or Private Virtual Circuit (PVC). (C)
10. Mnemonic Addressing (Asynchronous, and X.25) - Allows the subscriber to access predefined addresses by utilizing a predesignated alphanumeric unique character(s) in lieu of the normal call initiation process. The port is not limited to sole access of this single address when normal call initiation procedures are followed. (C)
11. Multiple Port Hunt Groups (Asynchronous, and X.25) - A group of access ports with a single data network address. The Maximum number of ports available per hunt group is 16. (C)
12. Multiple Network Addresses (X.25 only) - One address is included with the port. More than one network address may be assigned to a single access port. Multiple addresses may be purchased in blocks of 10. (C)
13. Network Terminal Profile (Asynchronous only) - Permits assignment of a profile representing the X.3, X.28 and X.29 parameter configuration of the user's asynchronous terminal.

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.3 RATE ELEMENTS (C)

C. Port Features (Cont'd)

14. Nonstandard Window Size (Asynchronous, X.25 and X.75) - Permits the customer to select a window size of two through seven for either or both directions of transmission. Standard default value is two. (C)
15. Permanent Virtual Circuit (Asynchronous, X.25 and X.75) - Permits transmission between two Data Terminal Equipment (DTEs) on the network without the initial packet to establish the call. The transmission path is predefined throughout the network. The default window size for both directions of transmission is two. (C)
16. Reverse Charge Option - Allows for the billing of usage charges associated with calls to be billed to the terminating network address. (C)
17. Reverse Charge Acceptance (Terminating Calls) - Customers who select this option will accept the charges for all calls sent to the network address(es) assigned to the customer. In order to receive calls from a dial access customer, this option must be selected. (C)
18. Throughput Class Negotiation (X.25 and X.75) - Permits negotiation on a per call basis of the throughput class for each direction of data transmission.
19. X.25 Gateway Option - Provides the ability to route calls to a private X.25 network on the PPSN using the first three or six digits of the destination address. It is the responsibility of the private network to route calls to the specific destination address. This feature allows a private network to assign individual addresses to end users while having a single interconnection to the Company over which traffic will be delivered. The X.25 Gateway Option is available for either three- or six-digit screening and will be provided on PSN X.25 ports only. (C)

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK****8.2.3 RATE ELEMENTS****C. Port Features (Cont'd)****(C)**

- 20. Default Throughput Class - Permits a default value to be used for the throughput class for each direction of data on a per call basis.
- 21. Fast Select - Permits a user to transmit data prior to the establishment of a virtual circuit. Users may send up to 128 octets (bytes) of data along with a call request packet. In similar fashion, the called party may respond immediately with up to 128 octets (bytes) of data when accepting the call or requesting call clearance.
- 22. Nonstandard Packet Size - A feature which permits the customer to select a packet size up to 256 octets (bytes). The default value is 128 octets (bytes).

D. Rearrangement Charge

When any feature or group of features listed in 8.2.5.C., following, is added or changed subsequent to initial subscription, a rearrangement charge, as set forth in 8.2.5.D., following, will apply, in addition to the nonrecurring charge associated with each feature added or changed.

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK (Cont'd)****8.2.4 PRICING PLANS**

PPSN may be ordered at the customer's option on a month-to-month basis or for fixed periods of 3 years (36 months) or 5 years (60 months). The optional rate plan allows the PPSN customer to order this service with the assurance that there will be no increases in rates during the fixed period. The optional rate plans apply to the PSSP Access Port, PSN Access Port, Private Dial Access, and Logical Channel rate elements.

A. Fixed Period Service Rate Plans

The customer may subscribe to a 36- or 60-month fixed period service rate plan. The minimum service period for fixed period service is 12 months. The customer must specify the length of the fixed period service at the time the service is ordered.

For customers that subscribe to fixed period service of 36 or 60 months, the monthly rates for the entire fixed period will be frozen from Company-initiated increases, at the rates in effect for the fixed period on the service date.

All rate elements of a PPSN service to be included in a fixed period service must be ordered under the same term conditions (i.e., all 36 months or all 60 months) and with the same negotiated service date.

Ports and Logical Channels may be added to an existing fixed period on a month-to-month basis or under the same fixed period rate plan as the existing PPSN, but at the rates and charges in effect at the time of the addition.

ACCESS SERVICE**8. ADVANCED COMMUNICATIONS NETWORKS****8.2 PUBLIC PACKET SWITCHING NETWORK****8.2.4 PRICING PLANS****A. Fixed Period Service Rate Plans (Cont'd)**

At the end of the fixed period service, the customer may convert to month-to-month or subscribe to a new fixed period service. The monthly rates will be adjusted to those in effect for the new fixed period service. Should the customer not make a choice by the end of the fixed period, the rates will automatically revert to the month-to-month option.

If a rate decrease occurs during the term of an existing fixed rate plan contract, the reduced rates will automatically be applied to the remaining term of the current contract period.

Effective September 1, 1998, customers establishing a Fixed Period Rate Plan, will not receive a rate decrease if the Company decreases rates during the term of the plan. Fixed Period Rate Plans established on or before August 31, 1998, will automatically receive a rate decrease if the Company decreases rates during the term of the plan.

ACCESS SERVICE

8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.4 PRICING PLANS (Cont'd)

B. Upgrades In Rate Plan

Services rated as month-to-month may be upgraded to a fixed period service rate plan at any time the customer chooses without incurring nonrecurring or discontinuance charges, this includes ports and logical channels added subsequently to an existing fixed period rated service but rated as month-to-month (see A., preceding). In addition, customers rated under the 36-month plan may upgrade to the 60-month plan without incurring nonrecurring or discontinuance charges. The monthly rates will be those that are in effect at the time the service is upgraded. New minimum service periods apply to all upgrades.

New minimum service period applies to all Packet Switching Pricing Plan rate elements that are upgraded in the following manner:

- If the service being upgraded has been in place for more than 12 months, minimum period provisions will not apply, or
- If the service being upgraded has been in place for less than 12 months, the time in service will be applied against the minimum period term.

ACCESS SERVICE

8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK (Cont'd)

8.2.5 RATES AND CHARGES

A. Access Connection - Monthly

1. PSSP Access Port

	NONRECURRING CHARGE	MONTHLY RATE	(C)
• X.25 Protocol - Synchronous Analog per port with modem for transmission speeds of up to:			
- 2.4 kbps	\$154.00	\$175.00	(C)
- 4.8 kbps	154.00	175.00	
- 9.6 kbps	154.00	175.00	(C)
• X.25 Protocol - Synchronous Digital per port with DSU for transmission speeds of:			
- 2.4 kbps	154.00	175.00	(C)
- 4.8 kbps	154.00	175.00	
- 9.6 kbps	154.00	175.00	
- 56 kbps	154.00	175.00	(C)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES

A. Access Connection - Monthly (Cont'd)

2. PSN Access Port

	NONRECURRING CHARGE	MONTHLY RATE	(C)
• X.25 Protocol - Synchronous Analog per port with modem for transmission speeds of up to:			
- 9.6 kbps	\$154.00	\$175.00	(C)
• X.25 Protocol - Synchronous Digital per port with DSU for transmission speeds of:			
- 9.6 kbps	154.00	175.00	(C)
- 56 kbps	154.00	175.00	(C)
• X.75 Protocol - Synchronous Analog per port with modem for transmission speeds of:			
- 9.6 kbps	154.00	175.00	(C)
• X.75 Protocol - Synchronous Digital per port with DSU for transmission speeds of:			
- 9.6 kbps	154.00	175.00	(C)
- 56 kbps	154.00	175.00	(C)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES

A. Access Connection - Monthly (Cont'd)

3. Private Dial Access Port

	NONRECURRING CHARGE	MONTHLY RATE	(C)
<ul style="list-style-type: none"> Asynchronous (X.3, X.28, X.29 Protocols) Analog per port with exchange dial access connection and modem for transmission speeds of: <ul style="list-style-type: none"> - 300 and 1200 bps and 2.4 kbps - 9.6 kbps 	\$154.00 154.00	\$252.00 252.00	(C) (C)
<ul style="list-style-type: none"> Synchronous (X.32 Protocol) Analog per port with exchange dial access connection and modem for a transmission speed of: <ul style="list-style-type: none"> - 9.6 kbps 	154.00	252.00	(C)

ACCESS SERVICE

8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES (Cont'd)

B. Network Usage - Monthly

	RATE PER MINUTE
• Network Connect Time, per dial access minute or fraction thereof:	
- Day rate[1]	\$0.060
- Night rate[2]	0.060

[1] Day rate 6:00 a.m. - 6:00 p.m. Local time, Denver, CO.

[2] Night rate after 6:00 p.m. and before 6:00 a.m. Local time, Denver, CO.

ACCESS SERVICE

8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES (Cont'd)

C. Port Features - Monthly

	NONRECURRING CHARGE	MONTHLY RATE	(C)
• Incoming Calls Barred	—	—	(C)
• Outgoing Calls Barred	—	—	
• Two Way Access	—	—	
• Auto Call, per destination address	\$10.00	\$1.00	
• Call Redirection	22.00	8.00	
• Closed User Group	22.00	8.00	
• Default Throughput Class	10.00	1.00	
• Fast Select	10.00	1.00	
• Fast Select Acceptance	10.00	1.00	
• Flow Control Parameters	—	—	

ACCESS SERVICE

8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES

C. Port Features – Monthly (Cont'd)

	NONRECURRING CHARGE	MONTHLY RATE	(C)
• Link Level Parameters	\$10.00	\$1.00	(C)
• Logical Channel Layout	10.00	1.00	
• Mnemonic Addressing	10.00	1.00	(C)
• Multiple Port Hunt Groups, each address	22.00	8.00	(C)
• Multiple Network Addresses, blocks of 10 addresses[1]	10.00	1.00	(C)
• Network Terminal Profile	10.00	1.00	(C)
• Nonstandard Packet Size	10.00	1.00	

[1] One address is included with the port.

ACCESS SERVICE

8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES

C. Port Features – Monthly (Cont'd)

	NONRECURRING CHARGE	MONTHLY RATE	(C)
• Nonstandard Window Size	\$10.00	\$1.00	(C)
• Permanent Virtual Circuit	22.00	8.00	
• Reverse Charge Option[1]	10.00	—	
• Reverse Charge Acceptance[1]	10.00	—	
• Throughput Class Negotiation	10.00	1.00	
• Logical Channels, per port, per channel			
- First 2 channels	—	—	(C)
- Each additional channel	10.00	1.00	(C)
• X.25 Gateway Option (PSN X.25 Access Port only)			
- Three digit screening	22.00	8.00	(C)
- Six digit screening	22.00	8.00	(C)
- Changes and/or additions to three or six digit screening	10.00	1.00	(C)
D. Rearrangement Charge, per rearrangement, per order	27.00	—	(C)

[1] The nonrecurring charge applies when this feature is installed subsequent to the initial installation of the service.

ACCESS SERVICE

8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES (Cont'd)

E. Access Connection - 36 Months

1. PSSP Access Port

	NONRECURRING CHARGE	MONTHLY RATE	(C)
• X.25 Protocol - Synchronous Analog per port with modem for transmission speeds of up to:			
- 2.4 kbps	\$154.00	\$157.50	(C)
- 4.8 kbps	154.00	157.50	
- 9.6 kbps	154.00	157.50	(C)
• X.25 Protocol - Synchronous Digital per port with DSU for transmission speeds of:			
- 2.4 kbps	154.00	157.50	(C)
- 4.8 kbps	154.00	157.50	
- 9.6 kbps	154.00	157.50	
- 56 kbps	154.00	157.50	(C)

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8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES

E. Access Connection - 36 Months (Cont'd)

2. PSN Access Port

	NONRECURRING CHARGE	MONTHLY RATE	(C)
<ul style="list-style-type: none"> X.25 Protocol - Synchronous Analog per port with modem for transmission speeds of up to: <ul style="list-style-type: none"> - 9.6 kbps 	\$154.00	\$157.50	(C)
<ul style="list-style-type: none"> X.25 Protocol - Synchronous Digital per port with DSU for transmission speeds of: <ul style="list-style-type: none"> - 9.6 kbps - 56 kbps 	154.00 154.00	157.50 157.50	(C) (C)
<ul style="list-style-type: none"> X.75 Protocol - Synchronous Analog per port with modem for transmission speeds of: <ul style="list-style-type: none"> - 9.6 kbps 	154.00	157.50	(C)
<ul style="list-style-type: none"> X.75 Protocol - Synchronous Digital per port with DSU for transmission speeds of: <ul style="list-style-type: none"> - 9.6 kbps - 56 kbps 	154.00 154.00	157.50 157.50	(C) (C)

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8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES

E. Access Connection - 36 Months (Cont'd)

3. Private Dial Access Port

	NONRECURRING CHARGE	MONTHLY RATE	(C)
<ul style="list-style-type: none"> Asynchronous (X.3, X.28, X.29 Protocols) Analog per port with exchange dial access connection and modem for transmission speeds of: <ul style="list-style-type: none"> - 300 and 1200 bps and 2.4 kbps - 9.6 kbps 	\$154.00 154.00	\$226.80 226.80	(C) (C)
<ul style="list-style-type: none"> Synchronous (X.32 Protocol) Analog per port with exchange dial access connection and modem for a transmission speed of: <ul style="list-style-type: none"> - 9.6 kbps 	154.00	226.80	(C)
4. Port Features			
<ul style="list-style-type: none"> Logical Channels, per port, per channel <ul style="list-style-type: none"> - First 2 channels - Each additional channel 	— 10.00	— 1.50	(C) (C)

ACCESS SERVICE

8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES (Cont'd)

F. Access Connection - 60 Months

1. PSSP Access Port

	NONRECURRING CHARGE	MONTHLY RATE	(C)
• X.25 Protocol - Synchronous Analog per port with modem for transmission speeds of up to:			
- 2.4 kbps	\$154.00	\$140.00	(C)
- 4.8 kbps	154.00	140.00	
- 9.6 kbps	154.00	140.00	(C)
• X.25 Protocol - Synchronous Digital per port with DSU for transmission speeds of:			
- 2.4 kbps	154.00	140.00	(C)
- 4.8 kbps	154.00	140.00	
- 9.6 kbps	154.00	140.00	
- 56 kbps	154.00	140.00	(C)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES

F. Access Connection - 60 Months (Cont'd)

2. PSN Access Port

	NONRECURRING CHARGE	MONTHLY RATE	(C)
• X.25 Protocol - Synchronous Analog per port with modem for transmission speeds of up to:			
- 9.6 kbps	\$154.00	\$140.00	(C)
• X.25 Protocol - Synchronous Digital per port with DSU for transmission speeds of:			
- 9.6 kbps	154.00	140.00	(C)
- 56 kbps	154.00	140.00	(C)
• X.75 Protocol - Synchronous Analog per port with modem for transmission speeds of:			
- 9.6 kbps	154.00	140.00	(C)
• X.75 Protocol - Synchronous Digital per port with DSU for transmission speeds of:			
- 9.6 kbps	154.00	140.00	(C)
- 56 kbps	154.00	140.00	(C)

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8. ADVANCED COMMUNICATIONS NETWORKS

8.2 PUBLIC PACKET SWITCHING NETWORK

8.2.5 RATES AND CHARGES

F. Access Connection - 60 Months (Cont'd)

3. Private Dial Access Port

	NONRECURRING CHARGE	MONTHLY RATE	(C)
<ul style="list-style-type: none"> Asynchronous (X.3, X.28, X.29 Protocols) Analog per port with exchange dial access connection and modem for transmission speeds of: <ul style="list-style-type: none"> - 300 and 1200 bps and 2.4 kbps - 9.6 kbps 	\$154.00 154.00	\$201.60 201.60	(C) (C)
<ul style="list-style-type: none"> Synchronous (X.32 Protocol) Analog per port with exchange dial access connection and modem for a transmission speed of: <ul style="list-style-type: none"> - 9.6 kbps 	154.00	201.60	(C)
4. Port Features			
<ul style="list-style-type: none"> Logical Channels, per port, per channel <ul style="list-style-type: none"> - First 2 channels - Each additional channel 	— 10.00	— 1.00	(C) (C)

ACCESS SERVICE

8. ADVANCED COMMUNICATIONS NETWORKS

8.3 RESERVED FOR FUTURE USE

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8. ADVANCED COMMUNICATIONS NETWORKS

8.3 RESERVED FOR FUTURE USE (Cont'd)

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