

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.9 Reserved for Future Use (Cont'd)

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in the addition to, the standard features provided with the Feature Groups. They are provided as Common Switching, Transport Termination or Interim NXX Translation options.

6.10.1 Common Switching Non-chargeable Optional Features

The following table shows the Feature Groups with which the optional features are available.

<u>Option</u>	<u>Available</u>		
	<u>Feature Groups</u>		
	A	B	D
A) Call Denial on Line or Hunt Group	X		
B) Service Code Denial on Line or Hunt Group	X		
C) Hunt Group Arrangement	X		
D) Uniform Call Distribution Arrangement	X		
E) Non-hunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement	X		
F) Automatic Number Identification		X	X
G) Up to 7 Digit Outpulsing of Access Digits to Customer		X	
H) Service Class Routing			X
I) Alternate Traffic Routing			X
J) Trunk Access Limitation			X
K) Call Gapping Arrangement			X
L) International Carrier Option			X
M) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS- Type Services	X	X	X

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Non-chargeable Optional Features (Cont'd)

	<u>Option</u>	<u>Available</u>		
		<u>Feature</u>	<u>Groups</u>	
		A	B	D
N)	End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services			X
O)	Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X
P)	Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X
Q)	Non-hunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X
(A)	<u>Call Denial on Line or Hunt Group</u>			

This option allows for the screening of terminating Feature Group A calls. There are two screening arrangements available with this option as follows: 1) limiting terminating calls for completion to only 411, 611, 911, 800 and a Telephone Company specified set of NXXs within the Telephone Company local exchange calling area of the dial tone office in which the arrangement is provided or, 2) limiting terminating calls to completion to only the NXXs associated with all end offices in the LATA, i.e., the call cannot be further switched or routed out of the LATA nor will calls be completed to 411, 611, 911, or 800.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(A) Call Denial on Line or Hunt Group (Cont'd)

All other calls are routed to a reorder tone or recorded announcement. Arrangement 1 is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices. Arrangement 2 is provided where available. This feature is available with Feature Group A.

(B) Service Code Denial on Line or Hunt Group

This option allows for the screening of terminating calls within the LATA, and for disallowing completion of calls to 0-, 555 and N11 (e.g., 411, 611, and 911). This feature is provided where available in all Telephone Company end offices. It is available with Feature Group A.

(C) Hunt Group Arrangement

This option provides the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed. This feature is provided in all Telephone Company end offices. It is available with Feature Group A. All Feature Group A access services in the same hunt group must provide off-hook supervisory signaling from the same point in time in the call sequence i.e., all off-hook supervisory signals must either be provided by the customer's equipment before the called party answers or all must be forwarded by the customer's equipment when the called party answers.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(D) Uniform Call Distribution Arrangement

This option provides a type of multiline hunting arrangement which provides for an even distribution of calls among the available lines in a hunt group. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(E) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement

This option provides access to an individual line within a multiline hunt or uniform call distribution group. When the nonhunting number is dialed, access is provided when it is idle, or busy tone is provided when it is busy. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(F) Automatic Number Identification (ANI)

- (1) This option provides the automatic transmission of a seven digit or ten digit number and information digits to the customer designated premises for calls originating in the LATA, to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with:
 - (a) all individual transmission paths in a trunk group routed directly between an end office and a customer designated premises or, where technically feasible, with
 - (b) all individual transmission paths in a trunk group between an end office and an access tandem, and a trunk group between an access tandem and a customer designated premises.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

- (2) The seven digit ANI telephone number is generally available with Feature Group B. ANI will be transmitted on all calls except those originating from multiparty lines and Public Access Lines using Feature Group B, or when an ANI failure has occurred.
- (3) The ten digit ANI telephone number is only available with Feature Group D. The ten digit ANI telephone number consists of the Number Plan Area (NPA) plus the seven digit ANI telephone number. The ten digit ANI telephone number will be transmitted on all calls except those identified as multiparty line or ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described below).

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

- (4) Where complete ANI detail cannot be provided, e.g., on calls from 4 party services, information digits will be provided to the customer.

The information digits identify:

- (a) telephone number is the station billing number - no special treatment required,
- (b) multiparty line - telephone number is a 4-party line and cannot be identified - number must be obtained via an operator or in some other manner,
- (c) ANI failure has occurred in the end office switch which prevents identification of calling telephone number - must be obtained by operator or in some other manner,

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

(4) (Cont'd)

- (d) hotel/motel originated call which requires room number identification,
- (e) coinless station, hospital, inmate, etc. call which requires special screening or handling by the customer, and
- (f) call is an Automatic Identified Outward Dialed (AIOD) call from customer premises equipment. The AIOD ANI telephone number is the listed telephone number of the customer and is not the telephone number of the calling party.

These ANI information digits are generally available with Feature Groups B and D.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

(5) Additional ANI information digits are available with Feature Group D also. They include:

- (a) InterLATA restricted - telephone number is identified line
- (b) InterLATA restricted - hotel/motel line
- (c) InterLATA restricted - coinless, hospital, inmate, etc., line

These information digits will be transmitted as agreed to by the customer and the Telephone Company.

Flexible Automatic Number Identification (Flex ANI) is an enhancement to ANI and is offered a Common Switching Non-Chargeable Option of Feature Group D as described in 6.10.3(C) following.

(G) Up to 7 Digit Outpulsing of Access Digits to Customer

This option provides for the end office capability of providing up to 7 digits of the uniform access code (950-XXXX) to the customer designated premises.

(M)

(M)

(M) Matter relocated without change from 1st Revised Page 270.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Non-chargeable Optional Features (Cont'd)(G) Up to 7 Digit Outpulsing of Access Digits to Customer (Cont'd)

The customer can request that only some of the digits in the access code be forwarded. The access code digits would be provided to the customer designated premises using multi-frequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. This feature is available with Feature Group B.

(H) Flexible Automatic Number Identification (FLEX ANI)

Flex ANI provides for the addition of Flex ANI capability to Feature Group D (FGD) trunk groups equipped with Automatic Number Identification (ANI). Flex ANI is a Common Switching non-chargeable Optional Feature to Interexchange Carriers that enhances the existing ANI optional feature (described in 6.10.1 (F) preceding) by allowing FGD customers to receive additional information digits. Flex ANI provides additional values for these information digits over and above the values currently available with ANI and will be used to identify additional call types, e.g., calls originating from LEC payphones, competitive payphones and private virtual networks. Flex ANI can be used to provide Originating Line Screening (OLS). OLS is described in 13.6 following.

Flex ANI is available in suitably equipped end offices as identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

(T) (M)

(T)

(T)

(T)

(M)

Material omitted now located on 2nd Revised Page 269.

(M) Material formerly located on 3rd Revised Page 168.1.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(H) Reserved(I) Reserved(J) Reserved(K) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to a customer designated premises, based on the line class of service (e.g., coin, multiparty or hotel/model), service prefix indicator (e.g., O-, 0+, 01+ or 011+).

It is provided in suitably equipped end office or access tandem switches. It is available with Feature Group D.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(L) Alternate Traffic Routing

When the customer orders both Direct Trunked Transport and Tandem Switched Transport at the same end office, this option provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a customer designated premises until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer designated premises. The customer shall specify the last trunk CCS desired for the high usage group. It is provided in suitably equipped end office or access tandem switches. It is available with Feature Groups B, C and D.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(M) Trunk Access Limitation

This option provides for the routing of originating 900 service calls to a specified number of transmission paths in a trunk group, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which could not be completed over the subset of transmission paths in the trunk group, i.e., the choked calls, would be routed to reorder tone. It is provided in all Telephone Company electronic end offices and where available in electromechanical end offices. It is available with Feature Group D.

(N) Call Gapping Arrangement

This option, provided in suitably equipped end office switches, provides for the routing of originating calls to 900 service to be switched in the end office to all transmission paths in a trunk group at a prescribed rate of flow, e.g., one call every five seconds, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which are denied access by this feature, i.e., the choked calls, would be routed to a no-circuit announcement. It is provided in selected Feature Group D equipped end offices and is available only with Feature Group D.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(O) International Carrier Option

This option allows for Feature Group D end offices or access tandem switches equipped for International Direct Distance Dialing to be arranged to forward the international calls of one or more international carriers to the customer (i.e., the Telephone Company is able to route originating international calls to a customer other than the one designated by the end user either through presubscription or 10XXX dialing). This arrangement requires provision of written verification to the Telephone Company that the customer is authorized to forward such calls. The written verification must be in the form of a letter of agency authorizing the customer to order the option on behalf of the international carrier. This option is only provided at Telephone Company end offices or access tandems equipped for International Direct Distance Dialing and is available only with Feature Group D.

(P) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option, which is provided in association with two or more Special Access Service groups, provides for the automatic overflow of terminating calls to a second Special Access Service group, when the first group has exceeded its call capacity. This option is available with Feature Groups A, B and D.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(Q) End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides the ability to verify that an end user has dialed a called party address (by screening the called NPA and/or NXX on the basis of geographical bands selected by the Telephone Company) which is in accordance with that end user's service agreement with the customer, e.g., WATS. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices which are designated as WATS Serving Offices. It is available with Feature Group D.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(R) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides the ability to sequentially access one of two or more Special Access Services utilized in the provision of WATS services (e.g., 800 Service Special Access services) in the terminating direction, when the hunting number of the Special Access Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B and D.

(S) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available Special Access Services utilized in the provision of WATS or WATS-type Services in the hunt group. Where available, this feature is only provided in Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B and D.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)(T) Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides an arrangement, for an individual Special Access Service utilized in the provision of WATS or WATS-type Services within a multiline hunt or uniform call distribution group, that provides access to that Special Access Service within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed, without hunting to the next idle number. Where available, this feature is only provided in Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B and D.

6.10.2 Transport Termination Nonchargeable Optional Features(A) Rotary Dial Station Signaling

This option provides for the transmission of called party address signaling from rotary dial stations to the customer designated premises for originating calls. This option is provided in the form of a specific type of Transport Termination. It is available with Feature Group B, only on a directly trunked basis.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.2 Transport Termination Nonchargeable Optional Features (Cont'd)(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin

This option may be ordered to provide coin, non-coin, or combined coin and non-coin operation. It is available only with Feature Group C and is provided in electronic end offices and other Telephone Company end offices where equipment is available. It is provided as a trunk type of Transport Termination.

Coin, Non-Coin:

This arrangement provides for initial coin return control, except in the case of non-coin, and routing of 0+, 0-, 1+, 01 + or 011+.

Because operator assisted coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

This arrangement is normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's automated operator services systems, rather than in the customer's manual cord boards.

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Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.2 Transport Termination Nonchargeable Optional Features (Cont'd)(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin (Cont'd)Combined Coin and Non-Coin:

When so equipped, the ANI optional feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for coinless public stations, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

(C) Operator Trunk - Full Feature

This option provides the initial coin return control function to the customer's operator. It is available with Feature Group D and is provided as a trunk type for Transport Termination.

6.10.3 Chargeable Optional Features(A) Interim NXX Translation

This service is an originating offering utilizing trunk side Switched Access Service and provides a customer identification function based on the dialed SAC and NXX code.

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6. Switched Access Service - (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features - (Cont'd)6.10.3 Chargeable Optional Features - (Cont'd)(A) Interim 800 Translation - (Cont'd)

For example, when a 1+800+NXX-XXXX or a 1+900+NXX-XXXX call is originated by an end user, the Telephone Company will perform the customer identification function based on the dialed digits to determine the customer location to which the call is to be routed. If the call originates from an end office switch not equipped to provide the customer identification function, the call will be routed to an office at which the function is available. Once customer identification has been established, the call will be routed to that customer. Calls originating from an end office switch at which the customer identification function is performed, but to which the customer has not ordered Interim NXX Translation, will be blocked. Calls to a 900 number dialed via 1+ from coin telephones, 10XXX, Inmate Service and Hotel/Motel Service will be blocked.

Calls to a 900 number dialed via 0+ will be blocked unless an ASR requesting unblocking is submitted to the Telephone Company by the customer.

The manner in which Interim NXX Translation is provided is dependent on the status of the end office from which the service is provided (i.e., equipped with equal access capabilities or not equipped with equal access capabilities). When Interim NXX Translation is provided from an end office not equipped with equal access capabilities, it will be provided in conjunction with FGC Switched Access Service.

The charge for Interim NXX Translation is as set forth in 17.1.1(B) following.

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6. Switched Access Service - (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features - (Cont'd)6.10.3 Chargeable Optional Features - (Cont'd)(B) Operator Transfer Service

At the option of the customer, Operator Transfer Service as specified following, is available for use with Feature Group D Switched Access Service. Operator Transfer Service is ordered as set forth in 5.2 preceding and is provided to the customer via separate Feature Group D trunks dedicated to Operator Transfer Service traffic.

Operator Transfer Service is an arrangement in which Telephone Company operators transfer 0- (0 minus) calls (calls for which the end user dials 0 with no additional digits) to the customer designated by the end user.

The Operator Transfer function will be performed in the following manner:

- The operator answers the 0- call.
- Initially, the Operator will suggest that the end user dial the customer on a direct basis. If the end user insists that the Operator transfer the call, the Operator will ask the end user to identify the desired customer and will then transfer the call as directed.
- If the end user has no preference, or the identified customer has not subscribed to Operator Transfer Service, the end user will be asked to select from a list of available customers.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.3 Chargeable Optional Features (Cont'd)(B) Operator Transfer Service (Cont'd)

The list of available Operator Transfer Service customers will be updated monthly. The order in which customers will be read to end users will be initially determined by the sequence in which the customers have ordered the Operator Transfer Service. For each subsequent month following the initial order for Operator Transfer Service, the customer in the first position on the list will be moved to the last position on the list. All other customers on the list will be moved up one position, e.b. 3rd to 2nd, 2nd to 1st etc. New Operator Transfer Service customers will initially be placed at the bottom of the list of customers.

0- Public Coin calls will be transferred to the end user designated customer. In order to accept coin sent-paid calls, the customer must order signalling as specified in TR-TSY-000506 and TR-NPL-000258.

The customer may receive inband, multi-wink, or expanded coin control signalling. Different signalling types cannot be mixed on a signal trunk group.

All non-recurring and usage sensitive rates and charges normally applicable to Feature Group D apply to Operator Transfer Service. Additionally, a charge as specified in 6.1.3(C)(2) preceding and 17.1.4(D) following, is assessed the customer per 0- call transferred.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.3 Chargeable Optional Features (Cont'd)(C) Flexible Automatic Number Identification
(Flex ANI)

Flex ANI is a Common Switching Optional Feature that enhances the existing Automatic Number Identification (ANI) optional feature (described in 6.10.1(F) preceding) by allowing Feature Group D (FGD) customers to receive additional information digits. Flex ANI provides additional values for these information digits over and above the values currently available with ANI and is used to identify additional call types, e.g., calls originating from LEC payphones, competitive payphones, and private virtual networks. Flex ANI can be used to provide Originating Line Screening (OLS) service. OLS service is described in 13.6 following.

Flex ANI information digits are two digits in length and are activated through switched software program updates. These codes precede the 10-digit directory number of the calling line and are part of the signaling protocol in equal access end offices. The information digits are outpulsed by the switching system along with the directory number from the originating end office and are sent to the receiving office for billing, routing, or special handling purposes.

Customers who have ANI but do not order Flex ANI will continue to receive the information digits associated with ANI. Flex ANI digits are assigned by the North American Numbering Plan Administrator. The Telephone Company will make available those information digits that are mutually agreed to by the customer and the Telephone Company.

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6. Switched Access Service (Cont'd)6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)6.10.3 Chargeable Optional Features (Cont'd)(C) Flexible Automatic Number Identification (Flex ANI) (Cont'd)

Flex ANI is available to customers with FGD Switched Access Service equipped with ANI. Flex ANI is available in suitably equipped end offices as identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

A nonrecurring charge, as set forth in 17.1.1(E) following, is associated with this optional feature. This nonrecurring charge is assessed by the Telephone Company on a per end office per Carrier Identification Code (CIC) basis and is applied in conjunction with the Access Order Charge specified in 17.3.1(A) following.

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7. Special Access Service7.1 General

Special Access Service provides a transmission path to connect customer designated premises*, directly, through a Telephone Company hub or hubs where bridging or multiplexing functions are performed, or to connect a customer designated premises and a WATS Serving Office. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

Each type of Special Access Service has its own characteristics. All are subdivided by one or more of the following:

- Transmission specifications,
- Bandwidth,
- Speed (i.e., bit rate),
- Spectrum

Customers can order a basic channel and select from a list of those available transmission parameters and channel interfaces that they desire in order to meet specific communications requirements.

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to

* Telephone Company Centrex CO-like switches, as well as the ports included in Public Packet Switching Service are considered to be customer premises for purposes of administering regulations and rates contained in this tariff.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

Following is a brief description of each type of channel:

Metallic - a channel for the transmission of low speed varying signals at rates up to 30 baud.

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300 to 3000 Hz.

Program Audio - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 200 to 3500 Hz, from 100 to 5000 Hz, or from 50 to 8000 Hz.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56 kbps.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

Detailed descriptions of each of the channel types are provided in 7.4 through 7.8 following.

The customer also has the option of ordering Voice Grade and High Capacity facilities (i.e., 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to Telephone Company hubs for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.5 and 7.8 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are set forth in 7.2.1 following.

For example, a customer may order a 3.152 Mbps High Capacity channel from a customer designated premises to a Telephone Company hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different hub to Voice Grade channels or may be extended to other customer designated premises or hubs. Optional features may be added to either the 1.544 Mbps or the Voice Grade channels.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions

For the purposes of ordering, the types of Special Access Services are:

Service Designator Codes

Metallic	MT
Voice	VG
Program Audio	AP
Digital Data	DA
High Capacity	HC

Each 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. Technical specifications packages are described in Section 15. following, optional features and functions are described in this section. Channel interfaces are described in 15.2 following.

Customized technical specifications packages will be provided where technically feasible. If the Telephone 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 Engineering Charges apply. In such cases, the customer will be advised and given the opportunity to change the order.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions (Cont'd)

The channel descriptions provided in 7.4 through 7.8 following, specify the characteristics of the basic channel and indicate whether the channel is provided between customer designated premises, between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed, between hubs, or between a customer designated premises and a WATS Serving Office.

- (A) Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in matrices set forth in 15.2 following.
- (B) Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in 15.2 following, in a combination format.
- (C) Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in (F) following. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions (Cont'd)

- (D) The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in matrices set forth in 15.2 following with the optional feature or function listed down the left side and the technical specifications package listed across the top.
- (E) The Telephone Company will maintain services installed prior to April 1, 1985, at their existing transmission specifications provided such performance specifications do not exceed the standards listed in this provision. Those services exceeding the standards listed will be maintained at the performance levels specified in this tariff.
- (F) All services installed after April 1, 1985 will conform to the transmission specifications standards contained in this tariff or in the following Technical References for each category of service:

Metallic	TR-NPL-000336
Voice Grade	TR-NPL-000335 PUB 41004, Table 4
Program Audio	PUB 62503 and associated Addendum TR-NPL-000337
Digital Data	PUB 62507 and associated Addendum PUB 62310 TR-NPL-000157
High Capacity	PUB 62508 PUB 62411

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(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 and a WATS Serving Office (WSO).

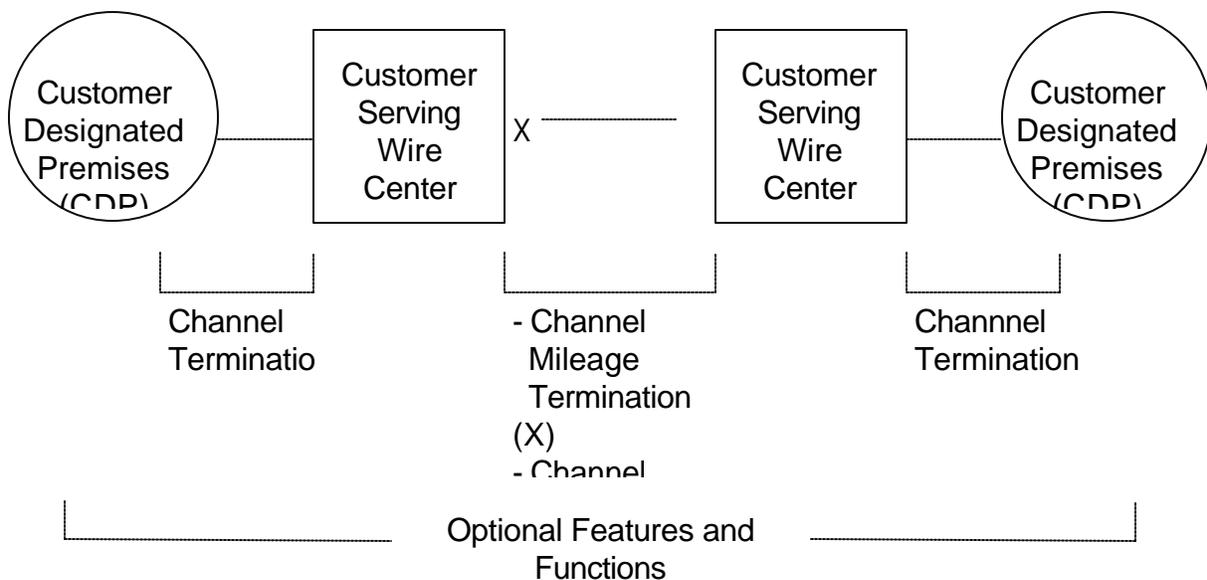
Applicable rate elements are:

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

A Special Access Surcharge, as set forth in 7.3 following, may be applicable.

The following diagram depicts a two-point Voice Grade service connecting two Customer Designated Premises (CDP). The service is provided with C-Type conditioning.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(A) Two-Point Service (Cont'd)

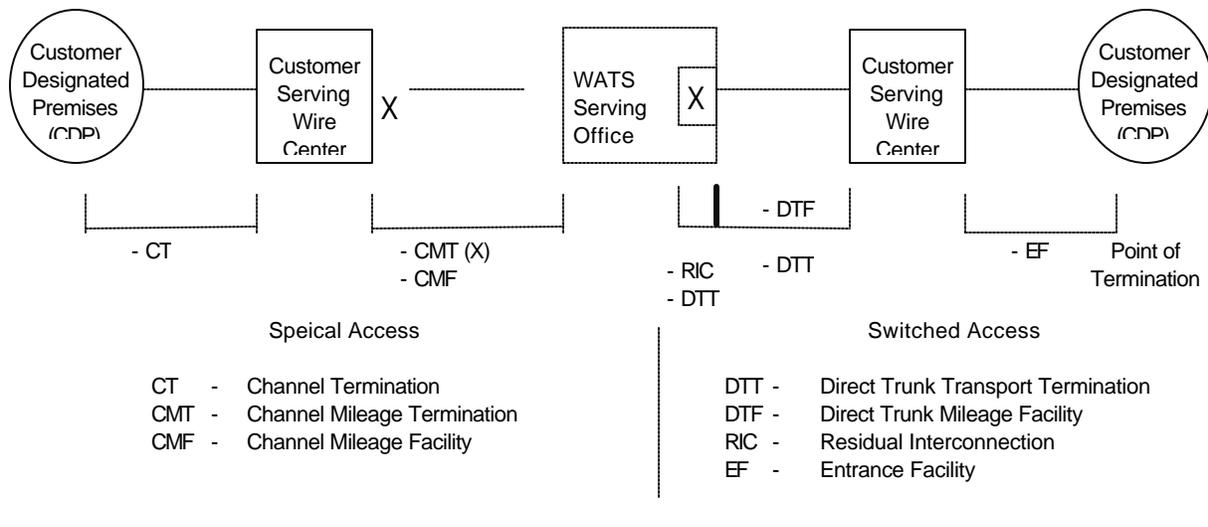
Applicable rate elements are:

- Channel Terminations (applicable one (1) per CDP)
- Channel Mileage
- ? 2 Channel Mileage Terminations plus
- ? 1 section, Channel Mileage Facility per mile
- C-Type Conditioning Optional Feature

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(A) Two-Point Service (Cont'd)

The following diagram depicts a two-point Voice Grade service connecting a customer designated premises to a WATS serving office.



Applicable rate elements for Special Access are:

- Channel Termination
- Channel Mileage
- ? 2 Channel Mileage Terminations plus
- ? 1 section, Channel Mileage Facility per mile
- Special Access Surcharge*

*May not apply if exemption certification is provided.

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service

Multipoint service connects three or more customer designated premises through one Telephone Company hub. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the descriptions for the appropriate channel.

Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.2 preceding and 15.2 following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service (Cont'd)

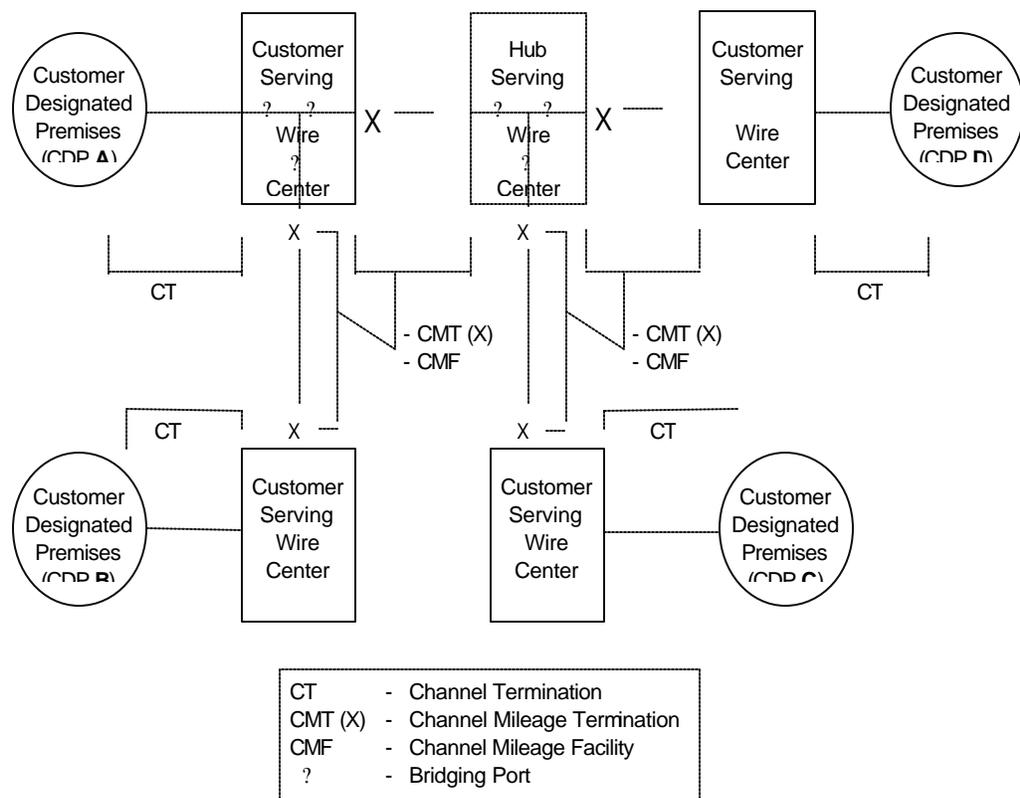
Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between the serving wire center for each customer designated premises and the hub and between hubs)
- Bridging
- Additional Optional Features and Functions (when applicable).

The Special Access Surcharge, as set forth in 7.3 following, may be applicable.

Example: Voice Grade multipoint service connecting four customer designated premises (CDP) via two customer specified bridging hubs.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service (Cont'd)

Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage
 - ? 2 Channel Mileage Terminations per Channel Mileage Facility section for a total of 8 plus
 - ? 4 sections, Channel Mileage Facility per mile
- Bridging Optional Feature (6 applicable, i.e., each bridge port)

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12, following, Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered [i.e., Channel Terminations, Channel Mileage (as applicable) and Optional Features and Functions (if any)].

7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in Section 11. following.

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.7 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test the following at the time of installation:

- (A) For Voice Grade analog services, the acceptance test will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order of service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For other analog services (i.e., Metallic and Program Audio) and for digital services (i.e., Digital Data and High Capacity), acceptance tests will include tests applicable to the service as specified by the customer in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade service to test other parameters, as described in 13.3.1(B) following, is available at the customer's request. All test results will be made available to the customer upon request.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in Section 5. preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

7.2 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Special Access.

7.2.1 Rate Categories

There are three basic rate categories which apply to Special Access Service:

- Channel Terminations (described in 7.2.1(A) following)
- Channel Mileage (described in 7.2.1(B) following)
- Optional Features and Functions (described in 7.2.1(C) following).

(A) Channel Termination

The Channel Termination rate category recovers the costs associated with the communication path between a customer designated premises and the serving wire center of that premises, including costs associated with intrabuilding circuits. 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 access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability is provided as an optional feature as set forth in (C) following. One Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(B) Channel Mileage

The Channel mileage rate category recovers the costs associated with the end office equipment and the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company hub or between two Telephone Company hubs. Channel Mileage rates are made up of the Channel Mileage Termination rate.

(1) Channel Mileage Facility

The Channel Mileage Facility rate recovers the per mile cost for the transmission path which extends between the Telephone Company serving wire centers and/or hub(s).

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(B) Channel Mileage (Cont'd)(2) Channel Mileage Termination

The Channel Mileage Termination rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at serving wire centers and hubs).

The Channel Mileage Termination rate will apply at the serving wire center(s) for each customer designated premises and Telephone Company hub where the channel is terminated.

The Channel Mileage Termination rate recovers a portion of the costs of the circuit equipment that is necessary for the termination of each end of the Channel Mileage Facility.

When the Channel Mileage Facility is zero (i.e., collocated serving wire centers), the Channel Mileage Facility rate will not apply.

(C) Optional Features and Functions

The Optional Features and Functions rate category recovers the costs associated with optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet 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. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(C) Optional Features and Functions (Cont'd)

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Conditioning
- Transfer Arrangements

A hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of bridging or multiplexing functions available.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(C) Optional Features and Functions (Cont'd)

Descriptions for each of the available Optional Features and Functions are set forth in 7.4 through 7.8 following.

7.2.2 Types of Rates and Charges

There are three types of rates and charges. These are monthly rates, daily rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

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

(B) Daily Rates

Daily rates are recurring rates that apply to each 24 hour period or fraction thereof that a Program Audio Service is provided for part time use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

Program Audio Service provided within a consecutive 30 day period will be charged the daily rate, not to exceed the monthly rate. For each day or partial day after a consecutive 30 day period of service, a charge equal to 1/30th of the monthly rate shall apply.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements. These charges are in addition to the Access Order Charge as specified in 17.3.1 following.

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set for each channel type as a nonrecurring charge for the Channel Termination.

(2) Installation of Optional Features and Functions

When optional features and functions are installed coincident with the initial installation of service, no separate nonrecurring charge is applicable. When optional features and functions are installed or changed subsequent to the installation of service, an Access Order Charge as specified in 17.3.1 following will apply per order.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, as set forth following, or that involve actual physical change to the service. Changes to pending orders are set forth in 5.4 preceding.

Changes in the physical location of the point of termination or customer designated premises are moves as set forth in 7.2.3 following.

Changes in the type of Service or Channel Termination which result in a change of the minimum period requirement will be treated as a discontinuance of the service and an installation of a new service.

Changes in ownership or transfer of responsibility from one customer to another will be treated as a discontinuance of the service and an installation of a new service. In the event the change in ownership or transfer of responsibility is as set forth in 2.1.2(A) preceding where there is no change in facilities or arrangements, the change will be treated as an administrative change.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

Administrative changes will be made without charge(s) to the customer. Administrative are changes are as follows:

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of agency authorization
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

All other service rearrangements will be charged for as follows:

- If the change involves the addition of other customer designated premises to an existing service, the nonrecurring charge for the channel termination rate element will apply. The charge(s) will apply only for the location(s) that is being added. The charge(s) will be in addition to an Access Order Charge as set forth in 17.3.1

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

being added. The charge(s) will be in addition to an Access Order Charge as set forth in 17.3.1

- If the change involves the addition of an optional feature or function, or
- If the change involves changing the type of signaling on a Voice Grade service, and for all other changes, the Access Order Charge as set forth in 17.3.1 following will apply.

7.2.3 Moves

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

- The Point of Termination at the customer's premises
- The customer's premises

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.3 Moves (Cont'd)

The charges for the move are dependent on 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 (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements. This charge is in addition to the Access Order Charge as specified in 17.3.1 following.

(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 new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

7.2.4 Minimum Periods

The minimum service period for all services except Program Audio and DS3 services is one month and the full monthly rate will apply to the first month. Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period are as set forth in 2.4.1(F) preceding. The minimum service period for Program Audio services is a continuous 24-hour period, not limited to a calendar day.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.4 Minimum Periods (Cont'd)

The minimum period for DS3 or DS3x3 service is a one year Rate Stability Payment Plan.

The minimum period for DS3x12 service is a 3 year Rate Stability Payment Plan.

7.2.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage Facility is calculated on the airline distance between the locations involved, i.e.,

- the serving wire centers associated with two customer designated premises,
- a serving wire center associated with a customer designated premises and a Telephone Company hub,
- two Telephone Company hubs,
- or between the serving wire center associated with a customer designated premises and a WATS Serving Office.

The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally obtain dial tone.

Mileage charges are shown with each channel type. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, then multiply the resulting number of miles times the Channel Mileage Facility per mile rate, and add the Channel Mileage Termination rate for each termination. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage and applying the rates. When more than one Telephone Company is involved in the provision of service, billing will be accomplished as set forth in 2.4.7 preceding.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.5 Mileage Measurement (Cont'd)

When hubs are involved, mileage is computed and rates are applied separately for each section of the Channel Mileage, i.e.,

- customer designated premises serving wire center to hub,
- hub to hub and/or
- hub to customer designated premises serving wire center.

However, when any service is routed through a hub for purposes other than customer specified bridging or multiplexing (e.g., the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises.

See the service configuration example for multipoint service as set forth in 7.1.3(B) preceding.

7.2.6 Facility Hubs

A customer has the option of ordering Voice Grade service or High Capacity services (i.e., DS1, DS1C, DS2, DS3 or DS4) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Voice, Program Audio, etc.).

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When placing an Access Order the customer will specify the desired hub.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs (Cont'd)

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of multiplexing functions available.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from high capacity to voice frequency channels.

Point to point services may be provided on channels of these services to a hub. The transmission performance for the point to point service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps channel is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

The Telephone Company will commence billing the monthly rate for the service to the hub on the date specified by the customer on the Access Order. Individual channels utilizing these services may be installed coincident with the installation of the service to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade or a High Capacity Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the service is installed.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs (Cont'd)

Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a High Capacity service is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a 6.312 Mbps High Capacity service is de-multiplexed to four DS1 channels and then one of the DS1 channels is further de-multiplexed to 24 individual Voice Grade channels.

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies.

The Telephone Company will designate hubs for Program Audio Service. Full-time or part-time service may be provided between customer designated premises or between a customer designated premises and a hub and billed accordingly at the monthly rates set forth in 17.2.4 following for a Channel Termination, Channel Mileage and Optional Features and Functions, as applicable. When the service is ordered to a hub, the customer may order a full-time or part-time Video and Program Audio services as needed between that hub and additional customer designated premises. The rate elements required to provide the part-time service (i.e., Channel Termination, Channel Mileage and Optional Features and Functions, as applicable) will be billed at daily rates for the duration of the service requested.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.7 Mixed Use Analog and Digital High Capacity Services

Mixed use refers to a rate application applicable only when the customer orders High Capacity facilities between a customer designated premises and a Telephone Company hub where the Telephone Company performs multiplexing/de-multiplexing functions and the same customer then orders the derived channels as Special and Switched Access Services. If the customer has Switched Access Service between a customer designated premises and an end office that is multiplexed at a telephone company hub and subsequently orders the derived channels as Special and Switched Access Service, rates and charges will apply as if the service were ordered as mixed use.

Except as noted above, the High Capacity facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexing Arrangement). The nonrecurring charge that applies when the mixed use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for Switched Access Service. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the mixed use facility.

When Special Access Service is provided utilizing a channel of the mixed use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade, Program Audio, etc.). The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate channel type.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.7 Mixed Use Analog and Digital High Capacity Services (Cont'd)

As each individual channel is activated for Switched Access Service, the High Capacity Special Access Channel Termination and Channel Mileage and Multiplexing rates will be reduced accordingly (e.g., 1/24th for a DS1 service, 1/672nd for DS3 service, etc.) except where that channel is utilized in conjunction with CCS/SS7 Interconnection Service.

Switched Access Service rates and charges, as set forth in 17.1 following, will apply for each channel that is used to provide a Switched Access Service. Additionally, the Switched Access Service Entrance Facility, Direct Trunked Transport, and Multiplexing charges, if applicable, will be reduced by multiplying their respective rates by the ratio of derived Switched Access Service Channels to the total number of Voice Grade channels that can be derived.

The customer must place an order for each individual Switched or Special Access Service utilizing the Mixed Use Facilities and specify the channel assignment for each such service.

7.2.8 DS3 High Capacity Service

(N)

(A) Rates and Charges for DS3, DS3x3 and DS3x12 service are offered on a month-to-month basis.

(B) Minimum periods for DS3 services are twelve months and applies as set forth in Section 5.5.1 and 5.5.3 preceding.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 DS3 High Capacity Service (Cont'd)(C) Rate Stability Payment Plans

Rates and Charges for DS3 and DS3x3 service are offered with a 1, 3 or 5 year Rate Stability Payment Plan. DS3x12 service is offered with a 3 or 5 year Rate Stability Payment Plan.

See rate regulations for Vintage Rates for Rate Stability Plans in (H) following.

(T)
(T)

The customer has the option to order a Rate Stability Payment Plan for each individual DS3 service hubbed with a DS3 or DS3x3 service at the equivalent or lower Rate Stability Payment Plan period as the DS3, DS3x3 or DS3x12 service.

(D) Termination Liability Charges for Stability Payment Plans

Minimum Periods for DS3, DS3x3 and DS3x12 High Capacity service apply as set forth in 7.2.4 preceding.

For Rate Stability Payment Plans (i.e., 1, 3 and 5 year plans) discontinued prior to the end of their Payment Plan period, the Termination Liability Charges will apply as follows:

For the Rate Stability Payment Plans discontinued prior to the end of the first year of the Rate Stability Payment Plan period, the customer will be liable for 75% of the total monthly charges for the unexpired portion of the first year of service. In addition, the customer will be liable for 70% of the second year, 60% of the third year, 50% of the fourth year and 40% of the fifth year, of the total monthly charges for the remaining portion of the Rate Stability Payment Plan.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 DS3 High Capacity Service (Cont'd)(D) Termination Liability Charges for Stability Payment Plans (Cont'd)

For Rate Stability Payment Plans discontinued beyond the first year of the Rate Stability Payment Plan period, the customer will be liable for 70% of the total monthly charges for the next 12 month period of the Rate Stability Payment Plan, 60% for the 13th through 24 months of the Rate Stability Payment Plan period, 50% for the 25th through 36 months and 40% for the 37th through 48 months, as applicable, for the remaining portion of the Rate Stability Payment Plan period.

(E) Renewal Plan for Rate Stability Payment Plans

At the end of the Rate Stability Payment Plan, the customer may renew, for any Rate Stability Payment Plan, in effect, without a new nonrecurring charge being applied, as long as the physical serving arrangement is not changed, or the customer may continue service at the original rate, on a month-to-month basis, up to one full year after the original Rate Stability Payment Plan ends.

(F) Change of Rate Stability Payment Plans

At any time a customer has the option to change their current payment plan to an equivalent or longer payment plan (i.e., 1 year to 3 year) without any Termination Liability Charges applicable to the current Rate Stability Payment Plan and without new nonrecurring charges applicable to the new equivalent or longer payment plan, as long as all other aspects of the service and facilities remain unchanged. In addition, the new equivalent or longer Rate Stability Payment Plan the customer chooses begins on the service order completion date and is treated as a new Rate Stability Payment Plan period.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 DS3 High Capacity Service (Cont'd)(F) Change of Rate Stability Payment Plans (Cont'd)

Customers may change to a shorter Rate Stability Payment Plan by paying the associated Termination Liability Charges with the original Rate Stability Payment Plan. The rates that will apply will be the current rates in effect for the Rate Stability Payment Plan ordered. However, no new nonrecurring charges will apply.

(G) Upgrades to DS3x3 and DS3x12 Services Provided Through Rate Stability Payment Plans

Customers may at any time, upgrade any DS3 service to a greater DS3 service, i.e., DS3 to DS3x12, at the same premises without incurring the DS3 Termination Liability Charge providing that an equivalent or longer period than the original Rate Stability Payment Plan period is selected. All appropriate upgrade, i.e., DS3x12 rates and charges will apply (i.e., Recurring, Nonrecurring and Termination Liability Charges).

(H) Vintage Rates for Rate Stability Payment Plan

Rate Stability Payment Plan (RSPP) Vintage Rates are those rates that apply to existing services provided under an RSPP term in the event the Telephone Company initiates a rate increase. Vintage rates as set forth in Section 17 following are classified as vintage because the Telephone Company ensures that rates provided under an RSPP term will not be increased by the Telephone Company throughout the Customer's RSPP term.

RSPP vintage rates will apply until the customer's existing RSPP term expires, the service is terminated by the customer or the currently effective RSPP rates are reduced to a level below a customer's vintage rates. Other customer modifications, other than termination, that cause a new rate or RSPP term to be established will result in the service becoming non-vintage and the rates as specified in Section 17.1.2 and 17.2.5 will apply.

(N)

(N)

Matter omitted now located on 1st Revised Page 311.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service7.3.1 General

Special access services provided under this tariff may be subject to the monthly Special Access Surcharge.

(M)
|
(M)

7.3.2 Application

- (A) The Special Access Surcharge will apply to each interstate Special Access Service that terminates on an end user's PBX or other device, where through a function of the device, the Special Access Service interconnects to the local exchange network. Interconnection functions include, but are not limited to, wiring and software functions, bridging, switching or patching of calls or stations. The Surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex CO-type switch.
- (B) Special Access Service will be exempted from the Surcharge by the Telephone Company upon receipt of the customer's written certification for the following Special Access Service terminations:
- (1) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA- equivalent ONALS; or
 - (2) an analog channel termination that is used for radio or television program transmission; or
 - (3) a termination used for TELEX service; or
 - (4) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines such as, terminations which are restricted through hardware or software; or

(M) Matter relocated, without change, from Original Page 310.3.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.2 Application (Cont'd)

(B) (Cont'd)

- (5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges such as, where the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service between customer points of termination, or Special Access Service connecting CCSA or CCSA-type equipment (inter-machine trunks);
or
- (6) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device which interconnects the Special Access Service to a local exchange subscriber line.

7.3.3 Exemption of Special Access Service

- (A) Special Access Services which are terminated as set forth in 7.3.2(B) preceding will be exempted from the Special Access Surcharge if the customer provides the Telephone Company with written exemption certification. The certification may be provided to the Telephone Company as follows:
 - at the time the Special Access Service is ordered or installed;
 - at such time as the service is reterminated to a device which does not interconnect the service to local exchange facilities; or
 - at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.3 Exemption of Special Access Service (Cont'd)

- (B) The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in 7.3.2(B) preceding, for each termination, and the date which the exemption is effective.
- (C) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or reterminated such that the exemption is no longer applicable.
- (D) The Telephone Company will work cooperatively with the customer to resolve any questions regarding the exemption certification. In addition, the Telephone Company may withhold exemption of the service until the questions are resolved.

7.3.4 Rate Regulation

- (A) The surcharge will apply as set forth in 7.3.2(A) preceding, except that a surcharge will be assessed on a per voice grade equivalent basis for Special Access Services derived from High Capacity Special Access Services as illustrated in the following example:

<u>Special Access Service</u>	<u>Voice Grade Equivalent</u>	<u>Surcharge</u>	<u>Monthly Charge</u>
DS1	24	x \$25	= \$600.00

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.4 Rate Regulation (Cont'd)

(A) (Cont'd)

The preceding example illustrates the maximum number of surcharges applicable to a DS1. If the customer claims exemption(s) as set forth in 7.3.3 preceding or, is not utilizing all available voice grade equivalents and has spare capacity, the number of surcharges would be reduced accordingly.

In the case of multipoint Special Access Services, one Special Access Surcharge will apply for each termination of a Special Access Channel at an end user's premises.

- (B) The Telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each interstate Special Access Service installed unless exemption certification is provided as set forth in 7.3.3 preceding.
- (C) If a written certification is not received at the time the Special Access Service is obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in (D) following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.4 Rate Regulation (Cont'd)

(D) Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification, as set forth in 7.3.3. preceding, is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety (90) days, based on the effective date of the change as specified by the customer in the letter of certification.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Metallic Service7.4.1 Basic Channel Description

A Metallic channel is an unconditioned two-wire channel arranged to transmit direct current and capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

Metallic Special Access services are typically used for applications such as alarm, pilot wire protective relaying, and dc tripping protective relaying. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Metallic Service are as set forth in 17.2.2 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Metallic Service (Cont'd)7.4.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(A) following.
Compatible network channel interfaces are set forth in 15.2.2(C)(1) following.

7.4.3 Optional Features and FunctionsCentral Office Bridging Capability

- (A) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.
- (B) Series Bridging of up to 26 customer designated premises.
The table set forth in 15.2.1(A) following shows the technical specifications packages with which the optional features and functions are available.

ACCESS SERVICE

7. Special Access Service (Cont'd)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service7.5.1 Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub or hubs, or between a customer designated premises and a WATS Serving Office (WSO).

Voice Grade Special Access services are typically used for voice and voiceband data applications. Typical examples of voice grade circuits are Foreign Exchange lines (station end only), multipoint private line, voice trunk type, two-point voice grade data (one-way or simultaneous two-way), multipoint voice grade data, and voice grade telephoto or facsimile. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Voice Grade Service are as set forth in 17.2.3 following.

7.5.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(C) following. Compatible network channel interfaces are set forth in 15.2.2(C)(3) following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service (Cont'd)7.5.3 Optional Features and Functions(A) Central Office Bridging Capability

- (1) Voice Bridging (two-wire and four-wire)
- (2) Data Bridging (two-wire and four-wire)
- (3) Telephoto Bridging (two-wire and four-wire)
- (4) Telemetry and Alarm Bridging

Split Band, Active Bridging Passive Bridging
Summation, Active Bridging

The rates for these options are set forth in
17.2.3(C)(1) following.

(B) Conditioning

Conditioning provides more specific transmission characteristics for Voice
Grade services. The rates for these options are set forth in 17.2.3(C)
following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service (Cont'd)7.5.3 Optional Features and Functions (Cont'd)(B) Conditioning (Cont'd)

For two-point services, the parameters apply to each service as measured end-to-end. For multipoint services, the parameters apply as measured on each mid-link or as measured on each end link. C-Type conditioning and Data Capability may be combined on the same service.

(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services.

The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-NPL-000335.

(2) Improved Attenuation Distortion*

Improved Attenuation Distortion upgrades the frequency versus loss limits of the channel. The technical specifications for Improved Attenuation Distortion are delineated in Technical Reference TR-NPL-000335. This option is available only when ordered in combination with C-Type Conditioning.

* Improved Attenuation Distortion and Improved Envelope Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Conditioning prior to May 4, 1988.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service (Cont'd)7.5.3 Optional Features and Functions (Cont'd)(B) Conditioning (Cont'd)(3) Improved Envelope Delay Distortion*

Improved Envelope Delay Distortion upgrades the frequency versus delay response limits of the channel. The technical specifications for Improved Envelope Delay Distortion are delineated in Technical Reference TR-NPL-000335. This option is available only when ordered in combination with C-Type Conditioning.

(4) Data Capability (D Conditioning)

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or three-point multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are delineated in Technical Reference TR-NPL-000335. The rate for this option is set forth in 17.2.3(C)(2) following.

* Improved Attenuation Distortion and Improved Envelope Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Conditioning prior to May 4, 1988.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service (Cont'd)7.5.3 Optional Features and Functions (Cont'd)(B) Conditioning (Cont'd)(4) Data Capability (D Conditioning) (Cont'd)

When a service equipped with Data Capability is used for voicecommunications, the quality of the voice transmission may not be satisfactory.

(5) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are delineated in Technical Reference TR-NPL-000335. The rate for this option is set forth in 17.2.3(C)(2) following.

(6) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type network channel interfaces.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service (Cont'd)7.5.3 Optional Features and Functions (Cont'd)(C) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination at no additional charge. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-NPL-000335.

(D) Improved Return Loss

- (1) On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335. The rate for this option is set forth in 17.2.3(C)(3) following.
- (2) On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335. The rate for this option is set forth in 17.2.3(C)(3) following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service (Cont'd)7.5.3 Optional Features and Functions (Cont'd)(E) Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service. The rate for this option is set forth in 17.2.3(C)(4) following.

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

The following network channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

(F) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of an access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to another channel that terminates in either the same or a different customer premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option. The rate for this option is set forth in 17.2.3(C)(5) following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service (Cont'd)7.5.3 Optional Features and Functions (Cont'd)(G) Public Packet Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Voice Grade service to interface with a Public Packet Switching Network packet switch located in a Telephone Company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT. This option is provided on an Individual Case Basis as set forth in 17.2.3(C)(6) following.

(H) Four-Wire/Two-Wire Conversions

When a customer requests 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 customer will be charged the four-wire Channel Termination rate as set forth in 17.2.3(A) following when an effective four-wire is specified in the order for service. The rate for the conversion is included as part of the basic four-wire Channel Termination rate.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service (Cont'd)7.5.3 Optional Features and Functions (Cont'd)(I) Improved Two-Wire Voice Transmission(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 dB to +4.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBrnc
51 to 100	37 dBrnc
101 to 200	40 dBrnc
201 to 400	43 dBrnc
401 to 1000	45 dBrnc

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Voice Grade Service (Cont'd)

7.5.3 Optional Features and Functions (Cont'd)

(4) Return Loss (Cont'd)

The rate for the provision of Improved Two-Wire Voice Transmission is included as part of the basic Channel Termination rate.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Program Audio Service7.6.1 Basic Channel Description

A Program Audio channel is a channel with bandwidth measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Program Audio Special Access services are typically used in full-time and part-time applications for radio broadcasting, noncommercial educational audio, and wired music. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Program Audio Service are as set forth in 17.2.4 following.

7.6.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(D) following. Compatible network channel interfaces are set forth in 15.2.2(C)(4) following.

ACCESS TARIFF

7. Special Access Service (Cont'd)7.6 Program Audio Service (Cont'd)7.6.3 Optional Features and Functions(A) Central Office Bridging Capability

Distribution Amplifier

(B) Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0 dB + 0.5 dB.

(C) Stereo

Provision of a pair of gain/phase equalized channels for stereo applications.
(An additional Program Audio channel must be ordered separately.)

The table set forth in 15.2.1(D) following shows the technical specifications packages with which the optional features and functions are available.

ACCESS TARIFF

7. Special Access Service (Cont'd)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Digital Data Service7.7.1 Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56 or 64 Kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are available via a Telephone Company designated hub or a digital wire center and are provided between customer designated premises or between a customer designated premises and a Telephone Company hub(s) or digital wire center. Digital Data Service may also be ordered in conjunction with High Capacity Multiplexing, DS1 to Voice/Digital as set forth in 7.8.3(B) following.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

Rates and charges for Special Access Digital Data Service are as set forth in 17.2.5 following.

7.7.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(F) following. Compatible channel interfaces are set forth in 15.2.2(C)(6) following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Digital Data Service (Cont'd)7.7.3 Optional Features and Functions(A) Central Office Bridging Capability(B) Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer designated premises. This arrangement is only available at a Telephone Company designated hub. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Digital Data Service (Cont'd)7.7.3 Optional Features and Functions (Cont'd)(C) Public Package Switching Network (PPSN)
Interface Arrangement

An arrangement that provides the interface requirements that permit a Digital Data Service to interface with a Public Packet Switching Network packet switch located in a Telephone Company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT.

The table set forth in 15.2.1(F) following shows the technical specifications packages with which the optional features and functions are available.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 High Capacity Service7.8.1 Basic Channel Description

The table set forth in 15.2.1(G) following shows the technical specifications packages with which the optional features and functions are available.

A High Capacity channel is a channel for the transmission of nominal 64.0 Kbps* or 1.544 (DS1), 3.152, 6.132, 44.736 (DS3), or 274.176 Mbps isochronous serial data. The actual bit rate is a function of the channel interface selected by the customer.

High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

The DS3 to DS1 multiplexing function is only available in Telephone Company Hubs as indicated in the exchange carrier Association Tariff F.C.C. No. 4.

DS3 High Capacity service offerings are only available where facilities and operating conditions permit. Where facilities and/or operating conditions do not permit, additional engineering as set forth in Tariff F.C.C. No. 1, Section 13, shall apply.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

Rates and charges for Special Access High Capacity Service are as set forth in 17.2.6 following.

* Available only as a channel of a 1.544 Mbps facility to a Telephone Company Digital Data hub or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 Kbps channels of two 1.544 Mbps facilities to a Digital Data hub. The customer must provide system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 High Capacity Service (Cont'd)7.8.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(G) following.
Compatible channel interfaces are set forth in 15.2.2(C)(7) following.

The following network channel interfaces (NCIs) define the bit rates that are available for a High Capacity channel:

<u>NCI</u>	<u>Bit Rate</u>
DS-15*	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

* A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps channel to a Telephone Company hub.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 High Capacity Service (Cont'd)7.8.3 Optional Features and Functions(A) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel line when a working line fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer designated premises. The customer is responsible for providing the equipment at its designated premises. Equipment at the customer designated premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 High Capacity Service (Cont'd)7.8.3 Optional Features and Functions (Cont'd)(B) Central Office Multiplexing(1) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

(2) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(3) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

(4) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

(5) DS1 to Voice/Digital

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for a Digital Data Service.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 High Capacity Service (Cont'd)7.8.3 Optional Features and Functions (Cont'd)(B) Central Office Multiplexing (Cont'd)(6) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 Kbps channels utilizing digital time division multiplexing.

(7) DS0 to Subrate

An arrangement that converts a 64.0 Kbps channel to subspeeds of up to twenty 2.4 Kbps, ten 4.8 Kbps, or five 9.6 Kbps channels using digital time division multiplexing.

The table set forth in 15.2.1(G) following shows the technical specifications packages with which the optional features and functions are available.

7.9 Individual Case Filings

Certain services set forth in Special Access Service, Section 7. are provided on an Individual Case Basis. Rates and charges for Special Access Service provided on an Individual Case Basis are set forth in 17.2.7 following.

ACCESS SERVICE

8. Common Channel Signaling System 7 (CCS/SS7) Interconnection Service8.1 General8.1.1 Service Description

Common Channel Signaling System 7 (CCS/SS7) Interconnection Service, provides a dedicated two-way signaling path between the customer designated premises and a Telephone Company interconnecting Signal Transfer Point (STP). The customer's designated premises and the Telephone Company's STP must be in the same LATA. CCS/SS7 Interconnection Service provides interconnection with the Telephone Company's CCS/SS7 network and can be used to access Telephone Company services as they become available and as facilities permit. CCS/SS7 Interconnection Service is provisioned as a Switched Access Service in accordance with Technical Publications TR-TSY-000606 and TR-TSV-000905. The Reference to Technical Publications section of this tariff contains ordering information for these publications.

8.1.2 Manner of Provisioning

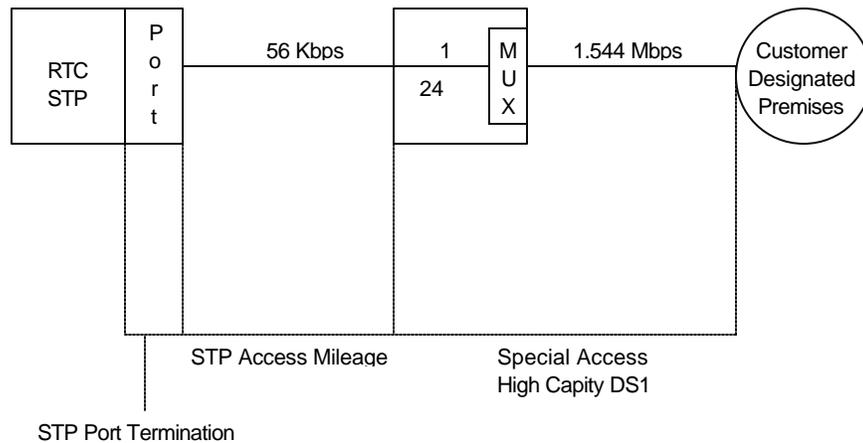
Special Access High Capacity Service must be provided in conjunction with CCS/SS7 Interconnection Service. The access link facilities for CCS/SS7 Interconnection Service will be provisioned as a Special Access High Capacity DS1 (1.544 Mbps) channel at the customer designated premises multiplexed to a 56 Kbps circuit. The link facilities for CCS/SS7 Interconnection Service will be provided as A-Links or B/D Links.

ACCESS SERVICE

8. Common Channel Signaling System 7 (CCS/SS7) Interconnection Service (Cont'd)8.1 General (Cont'd)8.1.2 Manner of Provisioning (Cont'd)

One STP Port Termination is required for each 56 Kbps access link utilized for CCS/SS7 Interconnection Service and will be installed at the Telephone Company interconnecting STP. STP locations are set forth in the National Exchange Carrier Association, Inc., Tariff F.C.C. No. 4.

The following diagram illustrates CCS/SS7 Interconnection Service:

8.1.3 Rate Elements

The following Switched Access rate elements apply to CCS/SS7 Interconnection Service:

(A) Signaling Network Access Link (SNAL)

The SNAL is a 56 Kbps digital data transmission facility between a designated Telephone Company Hub and the Telephone Company interconnecting STP.

The cost of this facility is recovered through the channel mileage in the categories as described in Section 7.2.1(B) preceding.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

8. Common Channel Signaling System 7 (CCS/SS7) Interconnection Service (Cont'd)8.1 General (Cont'd)8.1.3 Rate Elements (Cont'd)(B) STP Port Termination

The STP Port Termination rate element provides for the termination of the customer's 56 kbps circuit. One STP Port Termination must be installed at the Telephone Company interconnecting STP for each 56 kbps circuit.

There are two charges that apply to the STP Port Termination, i.e., a fixed recurring monthly rate per port termination and a nonrecurring installation charge per port.

8.1.4 Ordering Options and Conditions

CCS/SS7 Interconnection Service is ordered under the Access Order provisions set forth in Section 5 preceding. The Access Order Charge applicable for Switched Access will apply per Access Order for the installation, addition, change or rearrangement of CCS/SS7 Interconnection Service. Other charges associated with the ordering of CCS/SS7 Interconnection Service are applicable as specified in Section 5 preceding.

8.2 Transmission Specifications

Transmission specifications for CCS/SS7 Interconnection Service are set forth in Technical Publications TR-TSY-000606 and TR-TSV-000905. The Reference to Technical Publications section of this Tariff contains ordering information for these publications.

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to the effective date of this tariff except that service configurations having performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in this tariff and the appropriate Technical Reference Publication.

ACCESS SERVICE

8. Common Channel Signaling System 7 (CCS/SS7) Interconnection Service (Cont'd)8.3 Acceptance Testing

At the customer's request, the Telephone Company will, at no additional charge, cooperatively test at the time of installation, the parameters, as specified in Technical Publications TR-TSY-000606 and TR-TSV-000905. The Reference to Technical Publications section of this Tariff contains ordering information for these publications.

8.4 Obligations of the Telephone Company

In addition to the obligations of the Telephone Company set forth in Section 2 preceding, the Telephone Company has certain other obligations pertaining to the provision of CCS/SS7 Interconnection Service. These obligations are as follows:

8.4.1 Network Management

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. The Telephone Company maintains the right to apply protective controls which would generally be applied as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in 2.4.4(B)(3), except as specified in 2.4.4(C) preceding.

8.4.2 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may be made available to the customer. This data provides information on STP Port availability. This data does not include service performance data which is provided under other tariff sections, e.g., testing service results. If the data is to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis.

ACCESS SERVICE

8. Common Channel Signaling System 7 (CCS/SS7) Interconnection Service (Cont'd)8.5 Obligations of the Customer

In addition to the obligations of the customer set forth in Section 2 preceding, the customer has certain other obligations pertaining to the use of CCS/SS7 Interconnection Service. These obligations are as follows:

8.5.1 Forecast Report

The customer shall furnish to the Telephone Company, at the time CCS/SS7 Interconnection is ordered and annually thereafter, an updated three year forecast of usage for the STP Access Link and the STP Port Termination. The forecast shall include total annual volume and busy hour busy month volume. The Telephone Company will utilize the forecast in its own efforts to project further facility requirements.

8.6 Rate Regulations

This section contains specific regulations governing the rates and charges that apply for CCS/SS7 Interconnection Service.

8.6.1 Description of Rates and Charges

There are two types of rates and charges which apply to CCS/SS7 Interconnection Service. They are monthly recurring rates, and nonrecurring charges. These rates and charges are applied differently to the various rate elements as set forth below. For billing purposes, each month is considered to have 30 days.

(A) Monthly Rates

Monthly rates are fixed recurring rates that apply each month, or fraction thereof, that a specific rate element is provided.

ACCESS SERVICE

8. Common Channel Signaling System 7 (CCS/SS7) Interconnection Service (Cont'd)8.6 Rate Regulations (Cont'd)8.6.1 Description of Rates and Charges (Cont'd)(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation of a service or rearrangement of an existing service).

Charges for the rearrangement of CCS/SS7 Interconnection Service are set forth in 6.4.1(B) preceding.

Rates and charges for the Special Access High Capacity DS1 (1.544 Mbps) Service and the Special Access multiplexing arrangements are contained in Section 17.2.6 following.

8.6.2 Application of Rates and Charges

Rates and charges for the Signaling Network Access Link and the STP Port Termination apply as follows:

(A) Signaling Network Access Link

A fixed monthly rate applies for each 56 kbps access link between the Telephone Company Hub, where multiplexing from DS1 (1.544 Mbps) to a 56 kbps circuit occurs, and the Telephone Company interconnecting STP.

A monthly rate per mile applies to each airline mile between the Telephone Company Hub, where multiplexing from DS1 (1.544 Mbps) to a 56 kbps circuit occurs, and the Telephone Company interconnecting STP.

(B) STP Port Termination

A monthly rate applies for each STP Port Termination, installed at the Telephone Company interconnecting STP.

A nonrecurring charge applies for the installation of each STP Port Termination at the Telephone Company interconnecting STP.

ACCESS SERVICE

8. Common Channel Signaling System 7 (CCS/SS7) Interconnection Service (Cont'd)8.6 Rate Regulations (Cont'd)8.6.3 Minimum Period

CCS/SS7 Interconnection Service is provided for a minimum period of one month. When service is disconnected prior to the expiration of the minimum period, monthly charges are applicable for the balance of the minimum period. If service is disconnected after the minimum period, monthly charges will be based on the actual number of days the service is furnished, as set forth following. For the purpose of administering this regulation, with respect to the determination of charges for a fractional part of a month, every month is considered to have 30 days.

8.6.4 Moves

The regulations for moves and application of charges are set forth in Section 6.4.1 preceding.

8.6.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the Signaling Network Access Link is calculated on the airline distance between the locations involved, i.e., the Telephone Company Hub and the Telephone Company interconnecting STP.

Mileage is calculated as set forth in Section 7.2.5 preceding.

ACCESS SERVICE

9. Advanced Communications Networks9.0 General

Advanced Communications Networks provide high speed connectivity over a wide geographic area. Fast Packet Services use digital transmission facilities and switching technology to provide high speed information transfers for users with large bandwidth requirements.

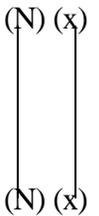
Advanced Communications Networks technology divides data into blocks (packets) with fixed maximum lengths. These packets are transported through the Telephone Company's network. Each packet contains the necessary information to ensure accurate data transfer to destination.

9.0.1 DefinitionsAccess Link

A dedicated non-multiplexed digital access line at 56 Kbps or 1.544 Mbps. This link can only be used for accessing Frame Relay Service.

Available Bit Rate (ABR)

The ABR is a service category intended for sources having the ability to reduce or increase their information rate if the network requires them to do so. This allows the customer to exploit the changes in the ATM layer transfer characteristics (i.e. bandwidth availability) subsequent to connection establishment.

Burst Rate

The upper bandwidth limit the permanent virtual connection is allowed to send data through the FRS network. The burst rate is limited by the actual physical port access speed.

Committed Information Rate (CIR)

The CIR represents the base-level bandwidth the permanent virtual connection is allowed to send data through the network. This rate will be lower than the speed of the physical access line.

Material omitted now located on Original Page 340.7.1.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.0 General (Cont'd)9.0.1 Definitions (Cont'd)Permanent Virtual Connection (PVC)

A virtual circuit set up administratively, by a network operator, for a dedicated point-to-point connection between two customer designated end points.

Port

The physical entry point for the local loop access to the FRS network.

Traffic Detail

A monthly report of data traffic information that provides the customer with details on frame and byte counts, dropped and congested frames.

Unspecified Bit Rate (UBR)

The UBR is a "best effort" service intended for non-critical applications which do not require tightly constrained delay and delay variation, nor a specified quality of service. UBR sources are expected to transmit non-continuous bursts of cells. UBR service supports a high degree of statistical multiplexing among sources.

UBR does not specify traffic related service guarantees. Specifically, UBR does not include the notion of a per-connection negotiated bandwidth. There may not be any numerical commitments made as to the cell loss ratio experienced by a UBR connection, or as to the cell transfer delay experienced by cells on the connection

Virtual Connection (circuit)

A connection established through a frame relay or packet network. Frames or packets are routed through the connection as an order-preserving transfer of data. This connection functions like a dedicated circuit between the end points.

Material omitted now located on Original Page 340.8.1

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

(N)(x)

(N)(x)

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)

9.0 General (Cont'd)

9.0.2 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Advanced Communication Networks, and are supplemented by and in addition to the other applicable regulations, rates and charges specified in other sections of this tariff

(A) Types of Rates and Charges

There are three types of rates and charges. These are monthly usage and non-recurring charges. The rates and charges are described as follows:

(M)

(M)

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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Roseville Telephone Company
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Roseville, California 95678

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.0 General (Cont'd)9.0.2 Rate Regulations (Cont'd)(A) Types of Rates and Charges (Cont'd)

(N)

(1) Monthly Rates

Monthly rates are fixed recurring rates that apply each month or fraction thereof that an Advanced Communications Networks Service is provided. For billing purposes, each month is considered to have 30 days.

(a) Minimum Period

Advanced Communications Networks are provided for a minimum period of one month. When service is disconnected prior to the expiration of the minimum period, monthly charges are applicable for the balance of the minimum period.

If service is disconnected after the minimum period, monthly charges will be based on the actual number of days the service is furnished. In order to determine the charges for a fractional portion of a month, every month is considered to have 30 days.

(2) Usage Rates

Usage rates are applicable to ATM Cell Relay Service and are based on the number of cells used within the designated bit rate.

The usage rates applicable for ATM CRS are constant bit rate (CBR) available bit rate (ABR) and unspecified bit rate (UBR)

(3) Non-recurring Charges

Non-recurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Advanced Communications Networks are: installation of service and installation of optional features and functions.

(N)

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.0 General (Cont'd)9.0.2 Rate Regulations (Cont'd)(A) Types of Rates and Charges (Cont'd)(2) Non-recurring Charges (Cont'd)(a) Installation of Service

Non-recurring charges apply to each service installed. The non-recurring charges for the installation of service are set forth in 17.4, Rates and Charges, following.

Non-recurring charges for ATM CRS are applicable for installation of each UNI, VPGI, NNI, and PVC rate element except when the customer is upgrading to a higher transmission speed. (i.e., 384 Kbps to 768 Kbps) within the same interface.

A change to existing FRS, ATM CRS, Asymmetrical Digital Subscriber Line (ADSL) Advanced Communications Networks that cannot be supported by the bandwidth of the access service connection will require a new access service connection. Installation of service nonrecurring will apply.

The Access Order Charge as described in Section 5.2 does not apply for initial installation.

(b) Installation of Optional Features and Functions

Non-recurring charges apply for the installation of optional features and functions available with Advanced Communications Networks. The charge applies whether the feature or function is installed with the initial installation or at any time subsequent to the installation of the service.

Non-recurring charges for ATM Cell Relay Service are applicable for installation of DS1 Circuit Emulation Service optional feature and the Frame Relay/ATM Service Interworking (FR/ATM-SI).

(N)

(N)

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.0 General (Cont'd)9.0.2 Rate Regulations (Cont'd)(A) Types of Rates and Charges (Cont'd)(2) Non-recurring Charges (Cont'd)(b) Installation of Optional Features and Functions (Cont'd)

The non-recurring charges for the installation of Optional Features and Functions are set forth in 17.4 following.

(c) Network Change Charges

Changes to existing Frame Relay Service (FRS), ATM CRS and ADSL Advanced Communications Networks are considered to be network changes. Network Change charges apply, per order, for changes made to existing FRS, ATM CRS and SMDS Broadband Fast Packet Service network elements associated with each access service connection.

(N)

(N)

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.1 RTC Digital Subscriber Line (DSL) SolutionsGeneral

This section contains the rules and regulations pertaining to the provision of RTC Digital Subscriber Line Services (DSL) Solutions. RTC DSL Solutions provide high-speed connection services over existing facilities which are also used to provision customers' dedicated and local exchange service. The regulations and rates specified herein are in addition to the applicable regulations and rates specified in other sections of this tariff. (T)

9.1.1 Asymmetrical Digital Subscriber Line (ADSL) Service(A) Service Description

Asymmetrical Digital Subscriber Line (ADSL) Service is an access data technology service offered at high speeds upstream and downstream. The "up" speeds represent transmission speeds in kilobits from the customer designated location (CDL) to the Telephone Company's ADSL Connection Point, while the "down" speeds represent transmission speeds in kilobits and megabits from the Telephone Company's ADSL Connection Point to the CDL. The Connection Point is the aggregation point designated by the Telephone Company for connecting multiple ADSL terminations. The ADSL terminations interface with other network services supporting the ADSL service and may include, but are not limited to, Frame Relay, Asynchronous Transfer Mode (ATM), DS1 and/or DS3 facilities dependent on availability.

(B) Service Qualification

Service access to the Telephone Company's ADSL Connection Point will be provided over a data transport service where facilities permit. The Telephone Company will qualify the ADSL Service between the CDL and the ADSL Connection Point.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.1 RTC Digital Subscriber Line (DSL) Solutions (Cont'd)9.1.1 ADSL Service (Cont'd)(B) Service Qualification (Cont'd)

The purpose of qualification is to determine the availability and limitations of the Telephone Company's ADSL Connection Points and outside plant facilities and service will only be offered where technical capabilities permit. The actual data rates depend on a number of factors, including, but not limited to (1) the distance from the CDL to the ADSL Connection Point, (2) the type of facility and (3) the physical condition of the plant. (T)

(C) Service Provisioning

ADSL Service is provisioned over existing Telephone Company facilities and transported to an Internet Service Provider (ISP), Customer Private Network (CPN), Interexchange Carrier, (IXC), or Competitive Local Exchange Carrier (CLEC), herein referred to as Service Provider(s). (T)

For ADSL, a splitter device will be installed at the CDL to filter the ADSL frequency from the switched service facility. The designated switched service will provide the connection from the CDL to the ADSL Connection Point. The ADSL Connection Point connects with the Telephone Company's Data Transport Network for handoff to the Service Provider(s). (T)

(D) Responsibility of the Telephone Company

The Telephone Company will provision and maintain ADSL Service for the End User Customer up-to and including the Network Interface Device (NID). (T)

(N)

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Roseville Telephone Company
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Roseville, California 95678

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.1 RTC Digital Subscriber Line (DSL) Solutions (Cont'd)9.1.1 ADSL Service (Cont'd)(E) Responsibility of the Customer

The Telephone Company's ADSL End User Customer is responsible for providing compatible customer provided equipment that is used for connection to ADSL Service. The Telephone Company will provision and maintain ADSL Services for the Telephone Company's End User Customer up-to and including the Network Interface Device (NID).

The rates and charges for the ADSL Service are in addition to basic local exchange or special access service. Rates and charges for ADSL Service are in addition to the rates and charges associated with data transport services for the Service Provider.

(N)
(N)

The Service Provider(s) is responsible for providing the Telephone Company with the necessary information to provide the ADSL Service. The Service Provider(s) will be required to connect with the Telephone Company at a DS3 ATM, DS1 ATM, or DS1 Frame Relay level of transport service.

A Service Provider(s) ordering ADSL Service on behalf of its subscribers must obtain permission from the subscribers for provision of the ADSL service.

(F) Rate Regulations(1) Rate Elements

A nonrecurring installation charge and a monthly rate apply for the provision of ADSL Service. A nonrecurring charge is applicable when changing options.

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)9.1 RTC Digital Subscriber Line (DSL) Solutions (Cont'd)9.1.1 ADSL Service (Cont'd)(F) Rate Regulations (Cont'd)(1) Rate Elements (Cont'd)

In certain cases, the Telephone Company's DSL End User Customer is served via non-metallic (fiber) facilities to the premises. In these cases the terminating equipment at the Customer Designated Location (CDL) eliminates the need to install a modem/router device at the CDL so that the end-user customer can receive DSL Service. Other compatible customer-provided equipment may need to be used for connecting the customer's device to the DSL Service, and it is the responsibility of the End User Customer to provide such equipment. In these cases, a DSL Optical Activation Charge will apply each time DSL service is activated to a Service Provider (SP), including a subsequent SP, and will be charged to the SP.

(N)

(N)

(2) Rate Application

(L)

- (a) ADSL Service for the Telephone Company's End User Customer will be applied on a per connection basis.
- (b) The access order charge as described in Section 5 of this tariff will not apply to ADSL Service.
- (c) Rates are shown in 17.4.1.

(L)

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(L) Material formerly located on Original Page 341.2.

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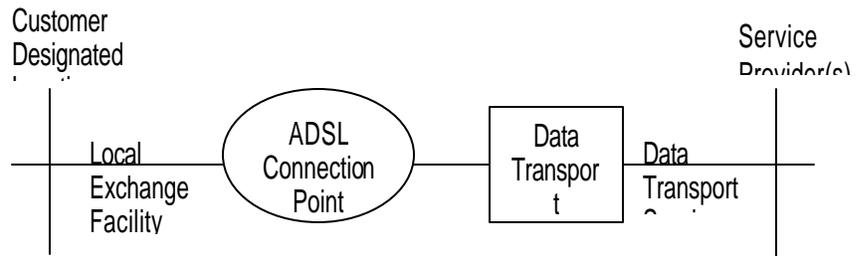
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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.1 RTC Digital Subscriber Line (DSL) Solutions (Cont'd)9.1.1 ADSL Service (Cont'd)(F) Rate Regulations (Cont'd)(2) Rate Application (Cont'd)

The following diagram depicts a typical ADSL configuration:

(3) Term Plan (TP)(a) Description

The terms and conditions specified herein are applicable to ADSL Service and are in addition to other regulations as specified in this tariff.

(b) Rate Changes

The customer may terminate the TP without penalty or liability should the rates increase during the term of existing TP.

(c) Termination Liability

When a TP service is discontinued prior to the end of the commitment period, termination liability charges will apply, as set forth based on the remainder of the TP period in effect at the time of disconnect as follows:

One Year TP - Prorated payment based on the ADSL Service Options times the number of remaining months of the first year's recurring charges.

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.2 Frame Relay Service (FRS)9.2.1 Description (Cont'd)

Frame Relay Service (FRS) provides a high speed statistically multiplexed data service that allows for the transfer of variable length frames across a wide geographical area. Frames travel at high speed from the source to the desired destination via virtual connections. Frame Relay allows end users to share network resources. Each individual access link and Frame Relay port can be shared by traffic to multiple destinations.

This service, allows customer compatible applications and/or equipment to connect to the Roseville Telephone Company FRS network. The local loop access to the FRS network is through a dedicated, non-multiplexed digital access line at DS0 (56Kbps), and/or DS1 (1.544 Mbps). These port options allow access to the FRS network. The DLCIs identify the address in information and route the framed data. The rate for the dedicated, non-multiplexed digital access line is bundled with the frame port options. Rates and charges for FRS and DLCIs are in Section 17 following.

(T)(x)

(T)(x)

The Data Link Connection Identifiers are established at the time of service subscription at customer specified end points making a Permanent Virtual Connection (PVC). The FRS network will only transmit data between authorized DLCIs.

Each PVC has a pre-assigned Committed Information Rate (CIR) and a Burst Rate (R). This provides bandwidth sharing and bandwidth on demand capabilities.

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)

9.2 Frame Relay Service (FRS) (Cont'd)

9.2.2 Reserved

(T)

(D)(x)

(D)(x)

9.2.3 Rate Regulations

(A) Rate Elements Description

(1) Frame Relay User to Network Interface (UNI) Port and Special Access Line

The User to Network Interface (UNI) Port provides a line side connection between the customer's channel termination and the Telephone Company's FRS. (See technical references in Section 9.2.2 preceding) The channel termination, 56 Kbps or DS1, is part of the UNI port. A non-recurring charge and monthly rate based on the speed of the port connection (i.e. 56/64 Kbps, 128 Kbps, 384 Kbps and 1.536 Mbps) apply per port for each physical connection to the network supporting FRS.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)

(N)

9.2 Frame Relay Service (FRS) (Cont'd)9.2.3 Rate Regulations (Cont'd)(A) Rate Elements Description (Cont'd)(2) FRS Network to Network Interface (NNI) Port

The Network to Network Interface (NNI) Port provides a trunk side connection between the customer's channel termination connecting to the customer's frame relay switch and the Telephone Company's FRS. (See technical references in 9.2.2 preceding) The channel termination is part of the NNI port. A non-recurring charge and monthly rate apply per port for each physical connection supporting FRS.

The NNI port is available at 1.536 Mbps.

(3) Data Link Connection Identifiers (DLCI)

The Data Link Connection Identifier is one of a minimum of two software-defined address points required to establish a permanent virtual connection (PVC). A PVC, with at least one DLCI at each end, is the dedicated communications path through the FRS.

(4) Optional Features(a) Traffic detail, per port:

The charge per port for customers to obtain information on FRS traffic, such as counts of data packets sent and received on each of the customer's channel terminations.

(N)

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.2 Frame Relay Service (FRS) (Cont'd)9.2.3 Rate Regulations (Cont'd)(A) Rate Elements Description (Cont'd)(4) Optional Features (Cont'd)(b) Network Adds or Changes:

The non-recurring charge for the Frame Relay Service will apply when increasing or rearranging the FRS UNI port bandwidth. (Options are: 56/64 Kbps, 128 Kbps, 384 Kbps or 1.536 Mbps). Also, the non recurring FRS charge applies when a customer adds, rearranges, or changes DLCIs.

(B) Minimum Period

The minimum period for Frame Relay Service is one month, except when provided under a Rate Stability Plan arrangement. The minimum period for Frame Relay Service varies according to the Rate Stability Plan selected.

(T)(x)
(T)(x)

(C) Rate Stability Plan

Rates and Charges for Frame Relay UNI Port and Special Access Line and Frame Relay NNI Port and Special Access Line are offered with a 1, 3, or 5 year Rate Stability Payment Plan.

For customers that subscribe to a 1, 3, or 5 year Rate Stability Payment Plan, the monthly rates in effect at the time the service is installed will not increase during the payment plan period.

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Roseville Telephone Company
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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.2 Frame Relay Service (FRS) (Cont'd)9.2.3 Rate Regulations (Cont'd)(C) Rate Stability Plan (Cont'd)(1) Termination Liability Charges

When a Term Plan service is discontinued prior to the end of the commitment period, termination liability charges will apply as set forth based on the remainder of the term period in effect at the time of disconnect as follows:

Termination liability charges are based on the FRS Service Options times the number of remaining months of the recurring charges. Customers will not be charged termination liability charges in which they continue to subscribe to service.

(T)(x)
|
|
(T)(x)

(2) Renewal Plan for Rate Stability Payment Plan

At the end of the Rate Stability Payment Plan, the customer may renew, for any Rate Stability Payment Plan in effect, without a new non-recurring charge being applied as long as the physical serving arrangement is not changed. The customer may continue service at the original rate, on a month-to-month basis, up to one full year after the original Rate Stability Payment Plan ends.

(3) Change of Rate Stability Payment Plan

A customer has the option, at any time, to change their current payment plan to an equivalent or longer payment plan (i.e. 1 year to 3 years) without any Termination Liability Charges applicable to the current Rate Stability Payment Plan and without new non-recurring charges applicable to the new equivalent or longer payment plan, as long as all other aspects of the service and facilities remain unchanged. In addition, the new equivalent or longer Rate Stability Payment Plan chosen by the customer begins on the service order completion date and is treated as a new Rate Stability Payment Plan period.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ROSEVILLE TELEPHONE COMPANY

TARIFF F.C.C. NO. 1
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Cancels Original Page 341.7

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

9. Advanced Communications Networks (Cont'd)9.2 Frame Relay Service (FRS) (Cont'd)9.2.3 Rate Regulations (Cont'd)(C) Rate Stability Plan (Cont'd)(3) Change of Rate Stability Payment Plan (Cont'd)

Customers may change to a shorter Rate Stability Payment Plan by paying the associated Termination Liability Charges with the original Rate Stability Payment Plan. The rates that will apply will be the current rates in effect for the Rate Payment Plan ordered. However, no new non-recurring charges will apply.

(M)

(M)

(4) Upgrades from DS0 Frame Relay UNI Port and Special Access Line

Customers may, at any time, upgrade any 56/64 Kbps Frame Relay UNI Port and Special Access Line to a 128 Kbps, 384 Kbps or 1.536 Mbps Frame Relay UNI Port and Special Access Line at the same premises without incurring a Termination Liability Charge providing that an equivalent or longer period than the original Rate Stability Payment Plan period is selected. All appropriate upgrade rates and charges will apply. (i.e. Recurring and Non-recurring Charges)

9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS)9.3.1 General Description

Asynchronous Transfer Mode Cell Relay Service (ATM CRS) is a fast packet, cell-based technology which can support applications requiring high bandwidth, high performance transport and switching. ATM CRS will allow customers who have requirements for high speed, low delay networking capabilities suited for bandwidth intensive data, voice or video business applications that require near-real-time communication to interconnect their multiple locations via an ATM Cell Relay network.

Material omitted now located on 1st Revised Page 341.9

(M) Material formerly located on Original Page 341.7

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Roseville Telephone Company
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Roseville, California 95678

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)9.3.2 Service Description

ATM CRS is a transport service which supports data, voice or video traffic based upon ATM technology and standards. ATM CRS provides the customer the capability to connect to the Telephone Company's ATM cell relay network via a User-Network Interface (UNI), Virtual Port Gateway Interface (VPGI), or Network to Network Interface (NNI) rate element.

ATM CRS provides the customer the capability to route traffic between various customer end points via a Permanent Virtual Connection (PVC) which is pre-defined in software on the Telephone Company's ATM switch and in customer provided equipment (CPE). ATM CRS supports PVCs only.

CPE, which acts as a multiplexer, bridge or router, located at the customer's premises interfaces with the ATM CRS which is responsible for segmenting information into fixed-size, 53 byte segments for transport via standard ATM cell relay signaling protocol.

Customers may enhance ATM CRS by ordering DS1 Circuit Emulation Service (CES). DS1 CES enables time division multiplexing (TDM) information to be converted to cells that may be transported over the ATM network.

Customers may also interconnect Frame Relay Service to ATM CRS by ordering the optional Frame Relay/ATM Service Interworking (FR/ATM SI). FR/ATM SI allows customers to create a permanent virtual circuit that spans a Frame Relay User-to-Network Interface (UNI), thereby inter-operating on both technology platforms, as set forth in Section 9.2. Frame Relay Service.

9.3.3 Service Provisioning(A) Manner of Provisioning

Provisioning of ATM CRS is subject to the availability and operational limitations of the Telephone Company's equipment and associated facilities.

(M) Material formerly located on Original Page 341.8.

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Roseville Telephone Company
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Roseville, California 95678

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)

(N)

9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)9.3.3 Service Provisioning (Cont'd)(A) Manner of Provisioning (Cont'd)

ATM CRS requires the use of CPE that functions as a multiplexer, bridge or router. The CPE must be compatible with the Telephone Company's equipment and facilities and must conform to industry.

The Telephone Company will provision ATM CRS up to and including the network interface located on the customer's premises. The placement of the network interface shall be located in a manner consistent with federal and state regulatory requirements. This location will be at each customer's premises, unless specified otherwise and agreed to by the Telephone Company.

The customer shall be responsible for obtaining permission for the Telephone Company's agents or employees to enter the customer's premises at a mutually agreed upon time for the purpose of installing, inspecting, repairing or, upon termination of service, removing the service components of the Telephone Company.

The operating characteristics of CPE used in connection with the ATM CRS must not interfere with the Telephone Company's ATM CRS. CPE must not:

- ? Endanger the safety of the Telephone Company's employees or the public,
- ? Damage, harm, require change in or alteration of the equipment or other services of the Telephone Company; or
- ? Interfere with the proper operation of the Telephone Company's equipment.

Upon notice from the Telephone Company that the CPE 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.

(N)

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9. Advanced Communications Networks (Cont'd)9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)9.3.3 Service Provisioning (Cont'd)(A) Manner of Provisioning (Cont'd)

When a customer requires the modification of standard service components not otherwise provided in this tariff, the modification may be furnished by the Telephone Company as specified in Section 12, Specialized Service or Arrangements, preceding.

The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Requests for special facilities or routing of access service will be provided in accordance with Section 11, Special Facilities Routing of Access Services, or Section 12, Specialized Service or Arrangements preceding.

(B) Ordering Specifications

The customer must order the ATM CRS with a minimum of one UNI, VPGL, or NNI port for each customer premises or network endpoint as detailed below. (T)(x)

(1) User Network Interface (UNI) Port (T)(x)

The UNI is the point of interconnection between the Telephone Company's communications facilities and the CPE. The UNI is provided using standard Cell Relay User-Network Interface signaling protocol. The UNI includes the facilities, port access into the Telephone Company's ATM Cell Relay network and first PVC.

The customer must select one of the following port interfaces and applicable bandwidths for each UNI: (T)(x)

- ? DS1 UNI is available at bandwidths of 1 to 384 Kbps, 385 to 768 Kbps and 769 Kbps to 1.5 Mbps;
- ? DS3 UNI is available at bandwidths of 3, 4.5, 6, 12, 23 and 40 Mbps;

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? DS3x3 UNI is available at bandwidths of 21 to 50 Mbps, 51 to 100 Mbps and 101 to 148 Mbps.

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Roseville Telephone Company
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Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)9.3.3 Service Provisioning (Cont'd)(B) Ordering Specifications (Cont'd)(2) Virtual Port Gateway Interface (VPGI) Port

(T)(x)

The VPGI provides a managed optimized connection to the ATM Cell Relay network via xDSL or NetGate services, into the Telephone Company's Frame/ATM Cell Relay network and includes the first PVC.

The customer must select one of the following interfaces and applicable bandwidths for each VPGI:

- ? DS1 VPGI is available at bandwidths of 1 to 384 Kbps, 385 to 768 Kbps and 769 Kbps to 1.5 Mbps;
- ? DS3 VPGI is available at bandwidths of 3, 4.5, 6, 12, 23 and 40 Mbps;
- ? DS3x3 is available at bandwidths of 21 to 50 Mbps, 51 to 100 Mbps and 101 to 148 Mbps.

(3) Network to Network Interface (NNI) Port

(T)(x)

The Network to Network Interface (NNI) is the point of interconnection between the Telephone Company's ATM Cell Relay network and another public carrier's ATM network or a privately owned ATM network. The NNI is provided using standard cell relay Network-to-Network Interface signaling protocol. The NNI includes port access into the Telephone Company's ATM Cell Relay network and the first PVC.

For each NNI the customer must select a the appropriate interface port at full bandwidth.

(D)

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Roseville Telephone Company
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Roseville Telephone Company
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Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)9.3.3 Service Provisioning (Cont'd)(B) Ordering Specifications (Cont'd)(4) Permanent Virtual Connection (PVC) Port

(T)(x)

Additional PVCs may be ordered to establish additional virtual connections.

The PVC defines a path across the Telephone Company's ATM Cell Relay network and the customer's premises. The customer with ATM CRS will also be able to establish PVCs to a customer of Frame Relay Service (FRS) via Frame Relay/ATM Service interworking (FR/ATM SI) as set forth in Section 9.3.2 preceding.

Each PVC will be configured as point-to-point unless otherwise designated as point-to-multipoint. The customer must indicate the PVC bandwidth, designate the connection and select the preferred Quality of Services (QoS) when ordering.

Each PVC consumes a portion of a UNI, VPGI, or NNI interface bandwidth. A PVC must be designated as a Virtual Channel Connection (VCC) or a Virtual Path Connection (VPC).

? VCC is a logical connection that exists between one ATM switch port and another ATM switch port.

? VPC is a group of logical connections that exists between one ATM switch port and another ATM switch port.

A VPC connection typically is used to route multiple, customer-defined VCCs as a group. It is the customer's responsibility to configure and maintain the individual VCCs within a VPC connection.

The Telephone Company will provision bit rate enforcement on each PVC in accordance with the QoS selected.

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Brian H. Strom, President - CEO
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9. Advanced Communications Networks (Cont'd)9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)9.3.3 Service Provisioning (Cont'd)(B) Ordering Specifications (Cont'd)(4) Permanent Virtual Connection (PVC) Port (Cont'd)

(T)(x)

The customer must designate the PVC QoS as Constant Bit Rate (CBR), Available Bit Rate (ABR) or Unspecified Bit Rate (UBR). A UNI, VPGI, or NNI interface will support multiple PVCs with any combination of QoS.

To meet QoS objectives, the sum of the PVC bandwidths assigned to CBR and VBR PVCs across a UNI, VPGI, or NNI cannot exceed the selected UNI, VPGI, or NNI bandwidth.

Additional UBR or VBR PVC connections may be made for customers wishing to exceed the UNI, VPGI, or NNI bandwidth.

(T)(x)

The customer must purchase a UNI, VPGI, or NNI interface at full bandwidth in order to support oversubscription.

When oversubscription occurs, there can be no certainty that the bandwidth defined for any of the VBR PVC connections will be available.

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Roseville Telephone Company
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Roseville, California 95678

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)9.3.3 Service Provisioning (Cont'd)(C) Limitations (Cont'd)

The Telephone Company undertakes the responsibility to maintain and repair the service it furnishes.

The Telephone Company will provide the customer notification of service-affecting activities that may occur in normal operation of its business. Such activities may include, but are not limited to, routine preventative maintenance and major switching machine change-outs, equipment additions, and removals or rearrangements.

(T)(x)

(D)(x)

(D)(x)

Maintenance of service regulations and charges are set forth in Section 13.3.2 Maintenance of Service, following, for customer reported trouble.

(D)(x)

(D)(x)

The Telephone Company shall not be responsible for error correction when the ATM switch discards cells with errors or when the network supporting ATM CRS is in a state of congestion.

The Telephone Company shall not be responsible for installation, operation, maintenance, or for adapting the ATM CRS to the technological requirements of any specific CPE.

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 the ATM CRS 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.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)

(N)

9.3.3 Service Provisioning (Cont'd)(D) Allowance for Service Interruptions

The Telephone Company will administer its network to insure the provision of acceptable service levels to all users of the Telephone Company's ATM CRS. In the event of an interruption of service, the customer will be granted a credit allowance in accordance with the regulations specified in Section 2.4.4, Credit Allowance for Service Interruptions, preceding. Any credit allowance shall be calculated beginning with the time of notice by the customer or user to the Telephone Company that an unsatisfactory performance level has occurred, provided that the customer promptly releases the service as requested by the Telephone Company to perform testing and maintenance. No credit allowance will be made for interruption due to the negligence or failure of CPE. Furthermore, the Telephone Company will not grant any credit allowance for any period in which the Telephone Company is not afforded access to the premises at which service is terminated.

9.3.4 Rate Regulations

This section contains the specific regulations governing the rates and charges which apply for the ATM CRS.

Specific rates and charges for the ATM CRS are set forth in Section 17.4, Rates and Charges, following.

Jurisdictional reporting requirements are set forth in Section 2.3.11, Jurisdictional Report Requirements, preceding.

(N)

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9. Advanced Communications Networks (Cont'd)9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)9.3.4 Rate Regulations (Cont'd)(A) Recurring and Non-recurring Rate Elements

(T)(x)

The following describes the rate non-recurring elements offered, where facilities exist, for ATM CRS.

(1) User-Network Interface (UNI) Port

(T)(x)

The UNI rate element is a standards-defined User-Network interface which offers customer access to the ATM Cell Relay network. This element includes the facility from the customer premise, the port access, and the first PVC.

UNIs are offered, where Telephone Company facilities exist, as described in Section 9.3.3(B)(1), preceding.

(2) Virtual Port Gateway Interface (VPGI) Port

(T)(x)

The VPGI rate element is a virtual User-Network Interface used to provide port access into the Telephone Company's ATM network. This element also includes the first PVC.

VPGIs are offered, where Telephone Company facilities exist, as described in Section 9.3.3(B)(2), preceding.

(3) Network to Network Interface (NNI) Port

(T)(x)

The NNI rate element is a standards-defined NNI used to provide port access into the Telephone Company's ATM network. This element also includes the first PVC.

NNIs are offered, where Telephone Company facilities exist, as described in Section 9.3.3(B)(3), preceding.

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Roseville Telephone Company
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9. Advanced Communications Networks (Cont'd)9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)9.3.4 Rate Regulations (Cont'd)(A) Recurring and Non-recurring Rate Elements (Cont'd) (T)(x)(4) Additional Permanent Virtual Connection (PVC) Port (T)(x)

The Additional PVC rate element provides additional virtual connections between a customer's UNI, VPGI or NNI. The first PVC is included in the charge for UNI, VPGI or NNI elements. Rates for each Additional PVC, whether provided as a VCC or VPC, are assessed as provided in Section 17.5, Rates and Charges, following.

(5) DS1 Circuit Emulation (DS1 CES)

The DS1 CES rate element enables transmission of time division multiplexed (TDM) traffic over ATM CRS and includes the transmission from the ATM CRS switch to the voice switch which serves the customer's premises. The DS1 CES PVC must be designated as a VCC and must be equipped with CBR QoS.

DS1 CES interconnection is limited to Primary Rate ISDN services. Rates are assessed for DS1 CES and CBR QoS per DS1 as set forth in Section 17.5, Rates and Charges, following.

(T)
|
(T)(6) Frame Relay/ATM Interworking Service (IS)

The Frame Relay/ATM S1 option creates a permanent virtual circuit that spans Frame Relay UNI. Chares are set forth in Section 17.4 following.

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Roseville Telephone Company
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9. Advanced Communications Networks (Cont'd)9.3 Asynchronous Transfer Mode Cell Relay Service (ATM CRS) (Cont'd)

(N)

9.3.4 Rate Regulations (Cont'd)

(B) Usage Rates

(1) Constant Bit Rate (CBR)

The CBR rate element is used by connections that request a fixed (static) amount of bandwidth, characterized by a Peak Cell Rate (PCR) value that is continuously available during the connection lifetime. The source may emit cells at or below the PCR at any time and for any duration (or may be silent). The rates for CBR are set forth in Section 17.4 following.

(2) Available Bit Rate (ABR)

The ABR rate element is intended for sources having the ability to reduce or increase their information rate if the network requires them to do so. This allows the customer to exploit the changes in the ATM layer transfer characteristics (i.e., bandwidth availability) subsequent to connection establishment. The rates for ABR are set forth in Section 17.4 following.

(3) Unspecified Bit Rate (UBR)

The UBR rate element is a service intended for non-critical applications, which do not require tightly constrained delay and delay variation, or a specified quality of service. UBR sources are expected to transmit non-continuous bursts of cells. UBR service supports a high degree of statistical multiplexing among sources.

UBR service does not specify traffic related service guarantees. Specifically, UBR does not include the notion of a per-connection-negotiated bandwidth. There may not be any numerical commitments made as to the cell loss ratio experienced by a UBR connection, or as to the cell transfer delay experienced by cells on the connection. The rates for UBR are set forth in Section 17.4 following.

(N)

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(N)

9. Advanced Communications Networks (Cont'd)9.4 Wholesale Solutions for RTC Digital Subscriber Line (WxDSL)General

This section contains the rules and regulations pertaining to the provision of Wholesale Solutions for RTC Digital Subscriber Line (WxDSL). WxDSL provides high-speed connection services over existing Telephone Company facilities which are also used to provision local exchange services. The regulations and rates specified herein are in addition to the applicable regulations and rates specified in other sections of this tariff. WxDSL is intended primarily for Internet Service Providers (ISPs) for the purpose of providing retail DSL service to their end-users (End-Users). However, WxDSL may be purchased by any other Party if the terms and conditions of WxDSL as described herein are met.

9.4.1 Wholesale Asymmetrical Digital Subscriber Line (WADSL) Service(A) Service Description

Wholesale Asymmetrical Digital Subscriber Line (WADSL) Service is an access data technology service offered at high speeds upstream and downstream. The "up" speeds represent transmission speeds in kilobits from the Designated End-User Location (DEUL) to the Telephone Company's WADSL Connection Point, while the "down" speeds represent transmission speeds in kilobits and megabits from the Telephone Company's WADSL Connection Point to the DEUL. The Connection Point is the aggregation point designated by the Telephone Company for connecting multiple WADSL terminations. The WADSL terminations interface with other network services supporting the WADSL service and may include, but are not limited to, Frame Relay, Asynchronous Transfer Mode (ATM), DS1 and/or DS3 facilities dependent on availability.

(B) Service Qualification

Service access to the Telephone Company's WADSL Connection Point will be provided over a data transport service where facilities permit. The Telephone Company will qualify the WADSL Service between the DEUL and the WADSL Connection Point.

(N)

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Roseville Telephone Company
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9. Advanced Communications Networks (Cont'd)9.4 Wholesale Solutions for RTC Digital Subscriber Line (WxDSL) (Cont'd)9.4.1 WADSL Service (Cont'd)(B) Service Qualification (Cont'd)

The purpose of qualification is to determine the availability and limitations of the Telephone Company's WADSL Connection Points and outside plant facilities.

Service will only be provided to End-Users of the ISP or other Party through local exchange telephone service facilities provided by the Telephone Company where technical capabilities permit. The actual data rates depend on a number of factors, including, but not limited to (1) the distance from the DEUL to the WADSL Connection Point, (2) the type of facility and (3) the physical condition of the plant.

(C) Service Provisioning

WADSL Service is provisioned over existing Telephone Company facilities and transported to an Internet Service Provider (ISP), Customer Private Network (CPN), Interexchange Carrier (IXC), or Competitive Local Exchange Carrier (CLEC), herein referred to as Service Provider(s) or other customer or carrier meeting terms and conditions described herein.

For WADSL, a device will be installed at the DEUL to filter the WADSL frequency from the switched service facility. The designated switched service will provide the connection from the DEUL to the WADSL Connection Point.

(D) Responsibility of the Telephone Company

- (1) The Telephone Company will determine if the local exchange service line is suitable for use with WADSL Service. WADSL Service will not be provided on lines that the Telephone Company determines are not suitable or on lines that produce interference with other services provided by the Telephone Company.

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Roseville Telephone Company
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Roseville, California 95678

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Roseville Telephone Company
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9. Advanced Communications Networks (Cont'd)9.4 Wholesale Solutions for RTC Digital Subscriber Line (WxDSL) (Cont'd)9.4.1 WADSL Service (Cont'd)(D) Responsibility of the Telephone Company (Cont'd)

- (2) The Telephone Company, after determining if the local exchange service line provided to the DEUL is suitable for WADSL Service, will notify the ISP or other Party if any additional CPE is necessary to support WADSL Service.
- (3) The Telephone Company will provision and maintain WADSL Service from the WADSL connection point to and including the Network Interface Device (NID) at the DEUL. The ISP or other Party is responsible for providing compatible CPE except as described in (F)(1) following.
- (4) The Company reserves the right to temporarily interrupt WADSL Service for wire center maintenance, software updates, in emergency situations without prior notice, and as described in Tariff F.C.C. No 1, Section 2.1, preceding.

(E) Responsibility of the Customer

In addition to the regulations described in other sections of this tariff, the following provisions apply to WADSL Service:

- (1) Local exchange service purchased from the Telephone Company pursuant to its tariffs is required for the provisioning of WADSL. The Telephone Company will automatically disconnect WADSL Service when the associated local exchange service is disconnected for any reason.
- (2) The ISP or other Party is responsible for providing the Telephone Company with all necessary information to provision WADSL Service (e.g., the End-User subscriber name, telephone number, and premises address; the billing name and address; the contact name and method by which WADSL will interconnect).

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Roseville Telephone Company
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Roseville Telephone Company
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9. Advanced Communications Networks (Cont'd)9.4 Wholesale Solutions for RTC Digital Subscriber Line (WxDSL) (Cont'd)9.4.1 WADSL Service (Cont'd)(E) Responsibility of the Customer (Cont'd)

- (3) The ISP or other Party is responsible for providing and maintaining all required customer provided equipment (CPE), which must be compatible with the Company's WADSL Service.
- (4) An ISP or other Party who purchases WADSL assumes the following obligations: The ISP or other Party will submit orders to the Company in a format and manner designated by the Company; the ISP or other Party will provision all CPE and wiring to its End-Users; the ISP or other Party will deal directly with its End-Users and will be solely liable with respect to all matters relating to the service, including installation, maintenance, and repair beyond the NID at the DEUL, billing and collections, marketing and ordering; and, the ISP or other Party will not direct its End-Users to contact the Company regarding any aspect of the WADSL service.
- (5) The ISP or other Party will obtain the appropriate authorization to allow the Company's employees or agents to enter the DEUL at any reasonable hour for the purpose of installing, inspecting, repairing or removing the NID or drop associated with WADSL Service.

(F) Rate Regulations(1) Rate Elements

A nonrecurring installation charge and a monthly rate apply for the provision of WADSL Service. A nonrecurring charge is applicable when changing data speeds.

(N)

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Roseville Telephone Company
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Roseville, California 95678

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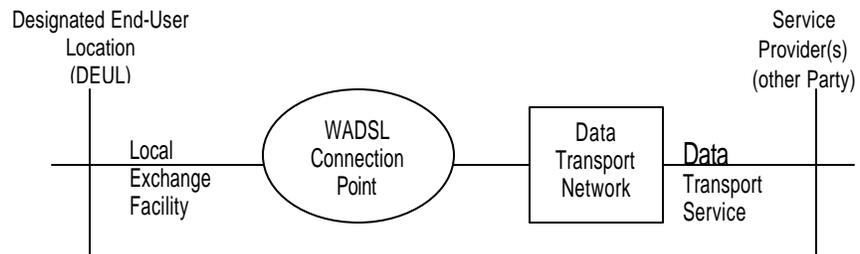
9. Advanced Communications Networks (Cont'd)9.4 Wholesale Solutions for RTC Digital Subscriber Line (WxDSL) (Cont'd)9.4.1 WADSL Service (Cont'd)(F) Rate Regulations (Cont'd)(1) Rate Elements (Cont'd)

In certain cases, the ISP or other Party's WADSL End-User is served via non-metallic (fiber) facilities to the premises. In these cases the terminating equipment at the DEUL eliminates the need to install a modem/router device at the DEUL so that the end-user customer can receive WADSL Service. In these cases, a WADSL Optical Activation Charge will apply each time WADSL service is activated.

Other compatible customer-provided equipment may need to be used for connecting the DEUL's device to the WADSL Service, and it is the responsibility of the ISP or other Party to advise its End-User of such equipment.

(2) Rate Application

- (a) A recurring monthly rate is charged for each service.
- (b) A nonrecurring rate applies for the installation of each service.
- (c) The access order charge as described in Section 5 of this tariff will not apply to WADSL Service.
- (d) Rates are shown in 17.4.4.
- (e) The following diagram depicts a typical WADSL configuration:



(N)

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Roseville Telephone Company
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Roseville, California 95678

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Roseville Telephone Company
200 Vernon Street
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9. Advanced Communications Networks (Cont'd)9.4 Wholesale Solutions for RTC Digital Subscriber Line (WxDSL) (Cont'd)9.4.1 WADSL Service (Cont'd)(F) Rate Regulations (Cont'd)(3) Volume and Term Discount Plan (VTDP)(a) Description

The WADSL Volume and Term Discount Plan (VTDP) provides discounted rates based on commitments of minimum volumes over a specific term. The VTDP encompasses all of an ISP or other Party's WADSL Services.

The telecommunications services offered under the VTDP are provided at wholesale rates to carriers and non-carriers. The telecommunications services offered under the VTDP are not services that the Company provides at retail rates and, accordingly, are not subject to the rate provisions of Sections 251(c)(4) and 252(d)(3) of the Communications Act.

VTDP is available for terms of 1 (one) and 2 (two) years with varying commitment levels for the number of lines.

One year discount plans will begin on the service anniversary date defined as the in-service date of the order for VTDP designating the Commitment Level and Term. Each one year Contract runs twelve months from its service anniversary date. (Contract Year)

Two year discount plans will begin on the service anniversary date defined as the in-service date of the order for VTDP designating the Commitment Level and Term. Each two year Contract runs twenty-four months from its service anniversary date. (Contract Years)

(N)

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Roseville, California 95678

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)9.4 Wholesale Solutions for RTC Digital Subscriber Line (WxDSL) (Cont'd)9.4.1 WADSL Service (Cont'd)(F) Rate Regulations (Cont'd)(3) Volume and Term Discount Plan (VTDP) (Cont'd)(a) Description (Cont'd)

At expiration of a VTDP, the ISP or other Party may terminate the VTDP, select a new VTDP, or renew the rates, charges, terms and conditions and Commitment Level in effect at the end of the expiring VTDP. A conversion to a new VTDP or discontinuance of the VTDP will require that the ISP or other Party submit a service change order.

VTDP is subject to payments for missed annual commitments ("Shortfall Liability") and for early termination ("Termination Liability") as described in 9.4.1(F)(3)(c) and (d) below.

(b) Annual Review

The Commitment Level is reviewed at the end of each Contract Year ("annual review") on the anniversary date. A count is taken of all of the ISP or other Party WADSL lines in service as of the last day of the Contract Year. ISP or other Parties who do not meet the minimum quantity of in-service lines for their Commitment Level on such date will be so notified.

If, at the time of annual review, the total quantity of WADSL lines that an ISP or other Party has in service on the last day of the Contract Year does not meet the minimum line volume applicable to the ISP or other Party's subscribed Commitment Level, a Shortfall Liability will be assessed. In addition, minimum line volumes will be reassigned to a reduced Commitment Level for the next year based on their current line volume at that time.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)9.4 Wholesale Solutions for RTC Digital Subscriber Line (WxDSL) (Cont'd)9.4.1 WADSL Service (Cont'd)(F) Rate Regulations (Cont'd)(3) Volume and Term Discount Plan (VTDP) (Cont'd)(b) Annual Review (Cont'd)

If the ISP or other Party adds additional WADSL Services and subscribes to a VTDP for these WADSL Services, the ISP or other Party may terminate the original VTDP without incurring termination liability provided the new VTDP subscribed to is equal to or greater than the original VTDP.

(c) Shortfall Liability

Shortfall Liability applies to any VTDP ISP or other Party that fails to meet the minimum line volumes for its designated Commitment Level.

Shortfall Liability is based on the difference between the monthly rate for the designated Commitment Level subscribed to by the ISP or other Party and the monthly rate for the Commitment Level that should have been charged based upon the actual quantity of in-service WADSL lines at the end of the Contract Years. The Shortfall Liability is equal to the difference in monthly rate multiplied by the sum of all lines in service at the end of each month during such Contract Years.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)9.4 Wholesale Solutions for RTC Digital Subscriber Line (WxDSL) (Cont'd)9.4.1 WADSL Service (Cont'd)(F) Rate Regulations (Cont'd)(3) Volume and Term Discount Plan (VTDP) (Cont'd)(d) Termination Liability

If an ISP or other Party elects to discontinue its VTDP prior to the end of the commitment period, Termination Liability charges will apply. Liability will be the lesser of the charges determined by the following calculations:

- (1) The difference between what would have been charged had the ISP or other Party had the month-to-month (Basic) rate commitment level rate for each line in-service at the end of each month the ISP or other Party subscribed to the VTDP, less all payments made and owed, including any Shortfall Liability payments made and owed.
- (2) A charge for the remainder of the commitment period calculated as the sum of (a) the minimum line volumes for the current Contract Year(s), multiplied by the monthly rate applicable to the Commitment Level, multiplied by one-half the remaining months in the current Contract Year(s), and (b) the sum of the minimum line volumes for each remaining full Contract Year(s) of the VTDP multiplied by the monthly rate applicable to the Commitment Level, multiplied by 6.

(4) Temporary Suspension of Service

When the local exchange service provided to the DEUL, on which WADSL is provisioned, is temporarily suspended for any reason, the WADSL Service will be temporarily suspended for the time period that the associated local exchange service is suspended.

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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9. Advanced Communications Networks (Cont'd)9.5 Ethernet Service (Marketed as EtherMAN)(A) Description

Ethernet Service (marketed as EtherMAN - Ethernet Metro Area Network) provides two-way packet-switched transmission of digital signals at a discrete bit rate of 5 Megabits per second (Mbps), 10 Mbps, 20 Mbps, 30 Mbps, 40 Mbps, 100 Mbps, or 1 gigabit in Ethernet format between end-user customer premises. Ethernet Service is only available at speed equal to or in excess of 5 Mbps.

(C)

(C)

(B) Provisions

Ethernet Service is available in a point-to-point or fiber-ring based service configuration. Ethernet is a packet based Ethernet service that is limited to usage of Ethernet. Ethernet Service is only available at speeds equal to or in excess of 5Mbps. Ethernet Service is designed to operate with a loss of no more than 29dB.

(M)

(C) Rate Application

Ethernet Service is billed according to Ethernet speed (5 Mbps, 10 Mbps, 20 Mbps, 30 Mbps, 40 Mbps, 100 Mbps, or 1 gigabit). The rate elements for Ethernet Service include a port rate and an Ethernet Usage rate. The port rate includes the platform base that provides access to the Ethernet service. The Ethernet Usage rate includes the fiber facility that allows usage of Ethernet service. Both elements are required at each customer premises and there must be a minimum of two customer premises for a complete service.

(C)

(C)

Rate Stability Payment Plans are as defined under Rate Regulations, Section 7.2.8 (C), (D), (E), (F) and (G) apply.

(M)

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Roseville Telephone Company
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Roseville, California 95678

(M) Material originally located on sheet 341.22

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

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200 Vernon Street
Roseville, California 95678

Material omitted now located on 2nd revised sheet 341.21.

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

10. Promotional Offerings10.1 General

Roseville Telephone Company may from time to time engage in special promotional service offerings, special arrangements, or demonstrations designed to attract new customers, to stimulate customer usage and/or increase existing customer awareness of the Company's services.

10.2 Terms, Conditions, Rates and Charges

These offerings will be limited to certain dates, times, and locations to be determined by the Company. Specific rates, terms and or conditions applicable to these promotional offerings will be filed in this section.

The specific terms and conditions or rates and charges of each promotional offering are described below.

- (A) This ADSL Service promotion waives the non-recurring charge associated with the initial establishment of ADSL Service.

The promotion will begin on March 24, 2000, and will apply to all new service orders taken by June 20, 2000, with a requested installation date no later than August 20, 2000.

- (B) This ADSL Service promotion waives the non-recurring charge associated with the establishment of ADSL Service one year plans.

The promotion will begin November 1, 2000, and will apply to all new service orders taken up to and including December 30, 2000, with a requested installation date no later than February 28, 2001.

- (C) This promotion waives the non-recurring charge associated with the establishment and/or upgrade to the next speed for ADSL one year plans. The incremental monthly rate difference associated with the upgrade to a higher DSL speed will be waived for a period of three months. At the end of the three month promotional period the new monthly rate will become effective or the customer may return to its pre-upgrade DSL speed and rate plan.

(N)

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

The promotion will begin March 15, 2001, and will apply to all new service orders taken up to and including May 13, 2001, with a requested installation date no later than July 31, 2001.

(N)

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

10. Promotional Offerings (Cont'd)10.2 Terms, Conditions, Rates and Charges (Cont'd)

- (D) This ADSL service promotion waives the non-recurring charge associated with the establishment of ADSL Service one year plans.

The Promotion will begin May 7, 2001 and will apply to all new service orders taken up-to and including August 3, 2001, with a requested installation date no later than September 14, 2001.

- (E) This ADSL service promotion waives the non-recurring charge associated with the establishment of ADSL Service one year plans.

The Promotion will begin November 2, 2001 and will apply to all new service orders taken up-to and including January 21, 2002 with a requested installation date no later than February 21, 2002.

- (F) This ADSL service promotion waives the non-recurring charge associated with the establishment of ADSL Service one year plans.

The Promotion will begin March 30, 2002 and will apply to all new service orders taken up-to and including June 26, 2002 with a requested installation date no later than July 26, 2002.

- (G) This ADSL service promotion waives the non-recurring charge associated with the establishment of ADSL service one-year or two-year plans for speeds of 384/128 kbps, 768/384 kbps or 1.5 mbps/384 kbps.

The Promotion will begin October 30, 2002 and will apply to all new service orders taken up-to and including January 25, 2003 with a requested installation date no later than February 25, 2003.

- (H) This ADSL service promotion waives the non-recurring charge associated with the establishment of or Option Change to ADSL service one-year or two-year plans for a speed of up-to 1.0 Mbps/128 kbps.

(N)

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Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

The Promotion will begin April 11, 2003 and will apply to all new service orders taken up-to and including June 30, 2003 with a requested installation date no later than July 30, 2003.

(N)

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

10. Promotional Offerings (Cont'd)

10.2 Terms, Conditions, Rates and Charges (Cont'd)

- (I) This ADSL service promotion waives the non-recurring charge associated with the establishment of or Option Change to ADSL Service one-year or two-year plans at the speed of up-to 1.0 Mbps/128 kbps.

The Promotion will begin August 19, 2003 and will apply to all new service orders taken up-to and including October 17, 2003 with a requested installation date no later than November 17, 2003.

(N)

(N)

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Brian H. Strom, President - CEO
Roseville Telephone Company
200 Vernon Street
Roseville, California 95678

ACCESS SERVICE

11. Special Facilities Routing of Access Services11.1 Description

The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access Service, Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the following conditions:

11.1.1 Diversity

Two or more circuits must be provided over not more than two different physical routes.

11.1.2 Avoidance

A circuit(s) must be provided on a route which avoids specified geographical locations.

11.1.3 Diversity and Avoidance Combined11.1.4 Cable-Only Facilities

Certain Voice Grade services are provided on Cable-Only Facilities to meet the particular needs of a customer.

Service is provided subject to the availability of Cable-Only facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

Avoidance and Diversity are available on Switched Access Service as set forth in Section 6. preceding and Metallic and Voice Grade Special Access Services as set forth respectively in 7.4 and 7.5 preceding. Cable-Only Facilities are available for Switched Access Service as set forth in Section 6. preceding and Voice Grade Special Access Service as set forth in Section 7.5 preceding.

ACCESS SERVICE

11. Special Facilities Routing of Access Services11.1 Description (Cont'd)

In order to avoid the compromise of special routing information, the Telephone Company will provide the required routing information for each specially routed service to only the ordering customer. If requested by the customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

The rates and charges for Special Facilities Routing of Access Services are developed on an individual case basis. Such rates and charges for Special Facilities Routing of Access Services are as set forth in 17.2.7 following and are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

ACCESS SERVICE

12. Specialized Service or Arrangements12.1 General Description

Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an individual case basis if such service or arrangements meet the following criteria:

- The requested service or arrangements are not offered under other sections of this tariff.
- The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services.
- The requested service or arrangements are provided within a LATA.
- The requested service or arrangements are compatible with other Telephone Company services, facilities, and its engineering and maintenance practices.
- This offering is subject to the availability of the necessary Telephone Company personnel and capital resources.

Rates and charges and additional regulations if applicable, for Specialized Service or Arrangements are provided on an individual case basis and are set forth in 17.3.7 following.