

AT&T INTERSTATE ACCESS GUIDEBOOK (Guidebook)

PART 12 - Competitive BDS Services - Southwest
SECTION 31 - ReliaNet

1st Revised Page 1

31. Synchronous Broadband Network Services (Cont'd)

31.3 ReliaNet Service⁽¹⁾

31.3.1 Service Description

ReliaNet is a transport service, providing customer access to a SONET-based high capacity inter-office network utilizing ring network architecture for facility redundancy and fault-tolerance in the event of a single facility or equipment failures.

The basic structure of the ReliaNet revolves around the SWBT (the Telephone Company) inter-office network. This transport network consists, by definition, only of Telephone Company central offices. Each central office on the ReliaNet network is called a node. These nodes are equipped with the SONET transmission equipment necessary to produce the bandwidth to transport a variety of Access Services. Depending on the volume option level required by the customer, the inter-office network is sized to accommodate.

ReliaNet will utilize bandwidth from the inter-office network in terms of SONET Volume Options (SVOs) as illustrated in the table below.

SONET VOLUME OPTIONS (SVO)	
<u>SVO</u>	<u>BANDWIDTH</u>
3	155.520 Mbps
6	311.040 Mbps
12	622.080 Mbps
24	1244.160 Mbps
48	2488.320 Mbps

The inter-office network provides high capacity bandwidth ranging from SVO (3) to SVO (48). The customer gains access to this inter-office network via Master Access Connections (MAC) and Auxiliary Connections as described following.

(1) Master Access Connection (MAC)

The Master Access Connection (MAC) is always required in conjunction with the inter-office network and is considered the primary aggregation point of the customer's traffic to or from the network. The MAC provides transport capacity from the inter-office network. This capacity is utilized via Auxiliary Connections (as described following) which are associated with that particular MAC.

⁽¹⁾ Effective October 19, 2012, ReliaNet is limited to existing Customers for existing service arrangements. Existing Customers may not purchase additional ReliaNet service arrangements; however, they may continue to order service connections associated with their existing ReliaNet service, subject to existing capacity availability, for the remainder of any term commitment, including any contract, term plan or other applicable arrangement (collectively, "term commitment"). Existing service will be provided according to all applicable rates, terms and conditions for the remainder of any term commitment. Upon the expiration of any term commitment, service will be provided on a month-to-month basis at the then-applicable month-to-month rate until service is discontinued. No new or additional term commitments of any kind, including any otherwise available renewals, extensions or renegotiations, will be available. Upon the expiration of any term commitment no move, adds or change orders will be accepted.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.1 Service Description (Cont'd)(1) Master Access Connection (MAC) (Cont'd)

The MAC is provisioned under two options - Option A and B. The MAC - Opt. A provides five distinct SVOs - SVO (3), (6), (12), (24) and (48) and allows for the connection of up to two customers premises locations to the inter-office network. With the MAC - Opt. A, ReliaNet will provide facility redundancy not only in the inter-office network and in the customer premises loop facility, but also redundancy of the customer premises (premises) themselves when two premises are specified. This will insure that all customer traffic will continue to route through an alternate premises in the event of a single facility or equipment failure in the primary premises.

In the dual premises arrangement the same traffic signals will be delivered to both premises. In addition, the customer will be required to deliver identical signals to the ReliaNet network from each premises.

The MAC - Opt. B provides three distinct SVOs - SVO (3), (6) and (12) and allows the connection of one customer premises location to the inter-office network. MAC - Opt. B will provide facility redundancy between the customer premises and the inter-office network but will not provide complete redundancy due to the single node link at the inter-office network.

(2) Auxiliary Connection (AC)

In addition to the MAC the customer may connect to the inter-office network via an Auxiliary Connection (AC). The Auxiliary Connection is an optional connection provided in those situations where a ReliaNet customer, who has ordered a MAC, desires to interconnect other customers to his ReliaNet via subtended connections. These ACs depending on the availability of facilities, may or may not be facility redundant as is the MAC. The capacity available on each Auxiliary Connection varies depending on the specific option selected by the customer, up to a maximum bandwidth of 155.520 Mbps. With all Auxiliary Connections, the inter-office transport is provided as part of the connection as described following.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.1 Service Description (Cont'd)(2) Auxiliary Connection (AC) (Cont'd)

There are three categories of Auxiliary Connections - On-Net, Off-Net and Intra-MAC. On-Net ACs are auxiliary connections ordered under three basic options. Option 1 is for those customer premises which have redundant fiber facilities to their serving wire center located on the Telephone Company inter-office network.⁽¹⁾ Option 1 Plus is for those customer premises which have both redundant fiber facilities as well as redundant serving wire centers located on the inter-office network. Option 2 is for those customer premises which have their serving wire center on the network but whose premises do not have redundant fiber facilities to their serving wire center. The On-Net Option 1 Plus AC provides the highest level of protection with dual-entrance facilities into the customer premises from the inter-office network in addition to serving wire center redundancy which provides protection in the event of failure at the primary serving wire center. The Intra-MAC AC is for those customer premises who have as their serving wire center the primary serving wire center of the MAC for that particular ReliaNet. Due to this configuration, no interoffice facilities are required to transport the AC traffic to the MAC. The level of protection provided by the Intra-MAC AC is dependent on the type of facility provided between the customer's premises and the associated serving wire center.¹ The Intra-MAC Plus AC is an enhanced Intra-MAC AC for customer premises which have as their serving wire center the primary serving wire center of the MAC, but desire serving wire center protection at all times. Some interoffice facilities are required to provide alternate serving wire center protection. Off-Net ACs are auxiliary connections for those customer premises which do not have their serving wire center on the Telephone Company inter-office network.

⁽¹⁾ In some limited circumstances, depending on availability of facilities, for EC-1, DS3 and OC3c interfaces, the fiber facilities from the customer premises to the serving wire center will be single loop rather than redundant. As noted in Tariff F.C.C. No. 73, Section 20.1, by the end of 1997, all but 100 of the current lines in SWBT territory will be served from wire centers providing Loop Redundancy.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.1 Service Description (Cont'd)(2) Auxiliary Connection (AC) (Cont'd)

For customers who desire to connect two MACs on the same ReliaNet, transport is provided via the MAC to MAC Connection rate element. This optional transport is non-distance sensitive and provides dedicated point to point transmission of a customer's traffic signals originating and terminating between the two affected MAC rate elements. The MAC to MAC Connection will not transverse a digital cross connect (DCS) system; therefore, will not be subject to mapping by the Telephone Company.

The sum total of the transport capacity of all the Auxiliary Connections and MAC to MAC Connection associated with a MAC may not exceed the capacity of that MAC. If, for example, the customer's MAC has a capacity of SVO (12), then the total capacity of the Auxiliary Connections associated with this MAC may not exceed 622 Mbps.

AC to AC traffic is permitted on ReliaNet via the AC to AC Connection rate element.

ReliaNet does not allow for transmission of customer's traffic between two MACs on a ReliaNet network unless the customer has specifically requested this type of transmission via the MAC to MAC Connection rate element.

The Auxiliary Connection Portability feature provides for the move of an AC to a different location on the inter-office network. During the term of the ReliaNet, an AC may be moved, without termination liability, to another location (within the particular city of that ReliaNet) provided that the proposed serving wire center is listed in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. Auxiliary Connection Portability will be provided only in those situations where facilities and equipment are available to do so. The cumulative quantity of SVOs, or equivalent, associated with the MAC must be maintained within the particular ReliaNet for the portability to be valid. For example, if a MAC is ordered for SVO (12), then no more than 622 Mbps of total service capacity may be relocated under Auxiliary Connection Portability for that particular MAC.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.1 Service Description (Cont'd)

Dependent upon the customer's bandwidth requirements as indicated by the SVO of the MAC, various signal outputs (access ports) are available at the MAC and ACs. The MAC (Options A & B) will allow access port connections at EC-1 (51.84 Mbps), DS3 (44.736 Mbps), OC3 (155.520 Mbps), OC3c (155.520 Mbps - concatenated), and OC12 (622.080 Mbps). The AC will allow access port connections as follows: On-Net AC - Option 1, Option 1 *Plus* and both Intra-MAC and Intra-MAC *Plus*: 1.544 Mbps (DS1), 44.736 Mbps (DS3), EC-1 and OC3c. On-Net AC - Option 2: 1.544 Mbps (DS1). Off-Net AC - 1.544 Mbps (DS1) and 44.738 Mbps (DS3). See Tables 1 through 5 following for matrices of the various port connection possibilities based on bandwidth availability. Table 6 gives equivalent access port connection capacities of the five SVO options.

TABLE 1

MAC Rate Element - Opt. A

Volume Option	EC-1	Port Connections				OC12
		DS3	OC3	OC3C		
3	X	X	X	X		
6	X	X	X	X		
12	X	X	X	X		X
24	X	X	X	X		X
48	X	X	X	X		X

TABLE 1B

MAC Rate Element - Opt. B

Volume Option	EC-1	Port Connections				OC12
		DS3	OC3	OC3C		
3	X	X	X	X		
6	X	X	X	X		
12	X	X	X	X		X

TABLE 2

AC (On-Net - Opt. 1 & Opt. 1 *Plus*) Rate Elements

MAC Access Port Connection	Port Connections			
	EC-1	DS1	DS3	OC3C
DS3	X	X	X	
OC3	X	X	X	
OC3C				X
OC12	X	X	X	

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.1 Service Description (Cont'd)

TABLE 3

AC (Intra-MAC and Intra-MAC Plus) Rate Elements

MAC - Opt. A & B Access Port Connection	Port Connections			
	EC-1	DS1	DS3	OC3C
DS3	X	X	X	
OC3	X	X	X	
OC3C				X
OC12	X	X	X	

TABLE 4

AC (On-Net - Opt. 2) Rate Element

MAC - Opt. A & B Access Port Connection	Port Connections	
	DS1	
DS3	X	
OC3	X	
OC3C		
OC12	X	

TABLE 5

AC (Off-Net) Rate Element

MAC - Opt. A & B Access Port Connection	Port Connections	
	DS1	DS3
DS3	X	X
OC3	X	X
OC3C		
OC12	X	X

TABLE 6

SVO	Bandwidth	Equivalent Port Connection Quantities				
		DS1	DS3	EC-1	OC3/OC3C	OC12
3	155.520 Mbps	84	3	3	1	-
6	311.040 Mbps	168	6	6	2	-
12	622.080 Mbps	336	12	12	4	1
24	1244.160 Mbps	672	24	24	8	2
48	2488.320 Mbps	1344	48	48	16	4

1. Synchronous Broadband Network Services (Cont'd)

31.3 ReliaNet Service (Cont'd)

31.3.1 Service Description (Cont'd)

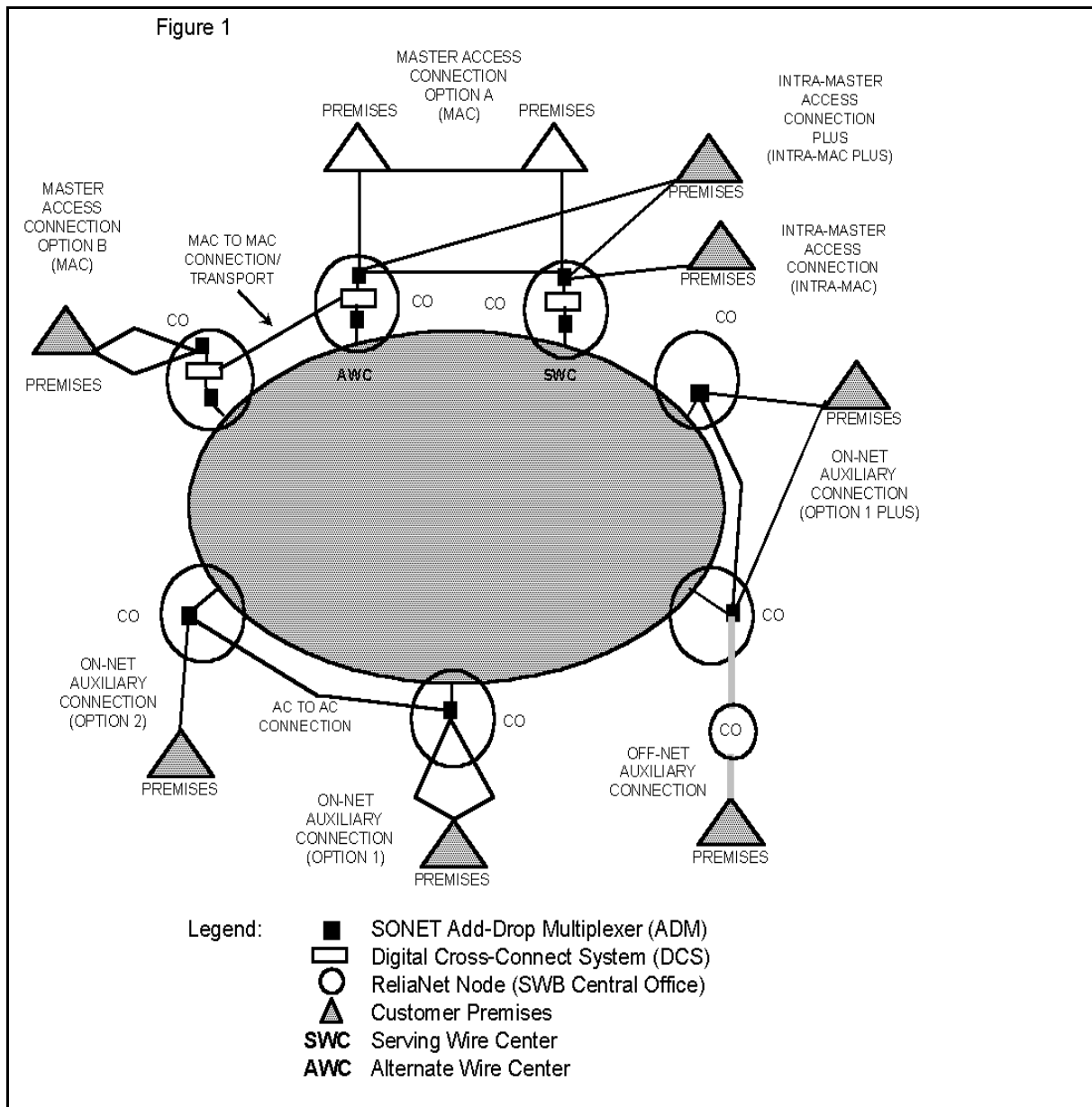
The basic ReliaNet rate elements are described in more detail as follows. Refer to Figure 1 following for graphic illustration of the rate elements as described following.

ReliaNet will be available in specified cities as follows:

Little Rock, AR
Kansas City, MO
St. Louis, MO
Kansas City, KS
Topeka, KS
Wichita, KS
Oklahoma City, OK
Tulsa, OK
Austin, TX
Dallas, TX
El Paso, TX
Ft. Worth, TX
Houston, TX
San Antonio, TX

The specific serving wire centers (ReliaNet nodes) equipped to provide ReliaNet are found in the National Exchange Carrier Association (NECA), Inc. Tariff F.C.C. No. 4.

There will be no provisions for utilizing SecureNet service options on services ordered for interconnection with ReliaNet.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.1 Service Description (Cont'd)

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet)

This section contains specific regulations governing the rates and charges for ReliaNet.

Effective November 1, 2017, Competitive Counties and Non-Competitive Counties have been established and are defined in Section 2.7 and the wire centers within such counties are listed in Sections 15.2(C) and (D).

For all rate elements in Section 31.3, price flex rates and charges, as provided in Section 39.5.2, apply, subject to service availability,⁽¹⁾ regardless of whether the county is Competitive or Non-Competitive.

If the Telephone Company initiates rate changes resulting in a decrease of rates, for an existing service with a 1, 3, 4 or 5 year minimum period, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing 1, 3, 4 or 5 year billing period will not exceed the original rate for that selected bill period. Rate changes may occur as a result of F.C.C. action.

Other Access Services used in conjunction with ReliaNet are governed by specific regulations and applicable rates and charges set forth in other sections of this tariff unless otherwise noted herein.

Customers of MegaLink Custom (DS3) Service ordered from Section 20 of this tariff may move DS3 services over to ReliaNet SVOs without termination liability provided conditions are met as set forth in 20.4.6. Provisions for this move are provided in Section 31.3.2(M) following. Customers of High Capacity Service (including OPP and HC-TPP pricing plans) may also move High Capacity (DS1) services to ReliaNet SVOs as set forth in Section 31.3.2(M) following.

(A) Rate Categories

There are four basic rate categories which apply to the ReliaNet service. 1) Master Access Connection, 2) Auxiliary Connection, 3) MAC to MAC Connection and 4) AC to AC Connection. The following are detailed descriptions of each category and its component rate elements:

⁽¹⁾ See Footnote 1 on Page 31-8.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(A) Rate Categories (Cont'd)(1) Master Access Connection (MAC)

Master Access Connections (MACs) provide the facilities and equipment for connecting the ReliaNet customer of record to the inter-office network. These connections utilize a ring architecture which provides fault-tolerance in the serving wire center and the loop transport. MACs may be ordered only if the customer's serving wire center and alternate serving wire center are nodes on the inter-office network. There are two options available for the MAC: Opt. A and Opt. B.

The MAC is the aggregation point for all the customer's traffic to or from the inter-office network. Specifically, it provides the SONET multiplexer(s) or FOTs (Fiber Optic Terminals) at the customer premises, electrical and fiber-optic terminating equipment, fiber loop transport to the inter-office network node(s), FOTs at the inter-office network node(s) and the plug-in units required to access the SONET bandwidth on the inter-office network.

MAC - Opt. A

The MAC - Opt. A provides for the connection of up to two customer premises locations to the inter-office network in those cases where the customer wishes to obtain fault-tolerance from the inter-office network to more than a single customer premises location. Should the customer desire to connect two customer premises to the ReliaNet, the MAC - Opt. A rate element provides flat-rated transport between the two customer premises.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(A) Rate Categories (Cont'd)(1) Master Access Connection (MAC) (Cont'd)MAC - Opt. B

The MAC - Opt. B provides for the connection of one customer premises location to the interoffice network where serving wire center redundancy is not required. The MAC - Option B provides a redundant fiber loop to a single serving wire center location on the interoffice network and therefore does not provide protection for the serving wire center of this ReliaNet option.

The MAC - Opt. A is available in SVOs of (3), (6), (12), (24) and (48). The MAC - Opt. B is available in SVOs of (3), (6) and (12). Both MAC - Opt. A and B offer the following access port hand-offs: EC-1, 44.736 Mbps (DS3), OC3, OC3c, and OC12.

If customer's initial MAC is SVO (12) or greater, and the customer is utilizing the OC12 Sonet-based Interface option on that MAC, one additional OC12 interface may be specified at that MAC location. All MAC volume options may be ordered and used when the additional OC12 interface is ordered. For example, an SVO (3) or (6) may be ordered with the second OC12 Sonet-based Interface option, however the usable bandwidth above the SVO option ordered is not available on that second OC12 interface. See Table 5 for bandwidth available on SVOs. When the additional OC12 interface is utilized to capacity, another additional OC12 interface may be specified.

See Table 1 preceding in 31.3.1 for matrices of the various port connection possibilities based on bandwidth availability. Both MAC options are available in 3, 4 and 5 year Minimum Periods. There is no Connection Portability available on the MAC.

31. Synchronous Broadband Network Services (Cont'd)

31.3 ReliaNet Service (Cont'd)

31.3.2 Rate Regulations - (ReliaNet) (Cont'd)

(A) Rate Categories (Cont'd)

(2) Auxiliary Connection (AC)

The Auxiliary Connection is an optional connection provided in those situations where ReliaNet customers, who have ordered a MAC, desire to interconnect other customers to their ReliaNet via subtending connections.

This rate element provides the FOTs at the customer premises, fiber facilities between the customer premises and the inter-office network node (only with On-Net Options 1 and 2), FOTs in the inter-office network necessary to convert the SVO signal of the AC to the required connection bandwidth on the Telephone Company network, and all fiber facilities within the inter-office network (when applicable) from the point of connection at the AC to the point of connection at the MAC serving wire center(s). This element also includes the associated plug-in units and DSX cross-connection equipment necessary to connect the incoming service to the inter-office network node on the ReliaNet.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(A) Rate Categories (Cont'd)(2) Auxiliary Connection (Cont'd)

There are three basic categories offered under the AC rate category: On-Net, Off-Net and Intra-MAC.

On-Net ACs are auxiliary connections of three types or options.

On-Net Option 1 is for those customer premises which have redundant fiber facilities to their serving wire center, which is a node located on the Telephone Company inter-office network.⁽¹⁾

On-Net Option 1 Plus is for those customer premises which have both redundant fiber facilities as well as redundant serving wire centers located on the inter-office network.

Both the On-Net Option 1 and Option 1 Plus ACs provide the FOTs at the customer premises and at the inter-office network node necessary to convert the SVO signal to the required connection bandwidth. They also provide the fiber loop facilities from the customer premises to the inter-office network (redundant routes) and the inter-office mileage to the point(s) of contact with the MAC serving wire center(s) node. Also included in both On-Net AC Option 1 rate elements are the associated plug-in units, DSX cross-connection equipment necessary to connect the incoming service to the inter-office network node on the ReliaNet.

On-Net Option 1 AC will provide facility redundancy between the customer premises and the inter-office network but will not provide complete redundancy due to the single node link at the inter-office network. Complete redundancy is, however, provided from this point of connection at the ReliaNet node to the MAC customer premises.

On-Net Option 1 Plus provides complete redundancy, including serving wire protection, from the customer's premises at the On-Net connection to the customer premises at the ReliaNet MAC connection.

(1) In some limited circumstances, depending on availability of facilities, for EC-1, DS3 and OC3c interfaces, the fiber facilities from the customer premises to the serving wire center will be single loop rather than redundant. As noted in Tariff F.C.C. No. 73, Section 20.1, by the end of 1997, all but 100 of the current lines in SWBT territory will be served from wire centers providing Loop Redundancy.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(A) Rate Categories (Cont'd)(2) Auxiliary Connections (Cont'd)

On-Net Option 2 is for those customer premises whose serving wire center is a node on the inter-office network but whose premises do not have redundant fiber facilities to their serving wire center on the network. This On-Net AC rate element provides the FOTs at the customer premises and at the inter-office network nodes necessary to convert the SVO signal to the required connection bandwidth. It also provides the fiber loop facilities from the customer premises to the inter-office network (single non-redundant route) and the inter-office mileage to the point of contact with the MAC serving wire center(s). Also included in the Off-Net AC rate element are the associated plug-in units, DSX cross-connection equipment necessary to connect the incoming service to the inter-office network node on the ReliaNet.

Off-Net AC is for those customer premises whose serving wire center is not a node on the Telephone Company inter-office network. The Off-Net AC rate element provides the DSX cross-connection equipment necessary to interconnect the incoming or outgoing Special Access service to the ReliaNet inter-office network node. It also provides the inter-office mileage (flat-rated) to the point of contact with the MAC serving wire center(s). In addition to the Off-Net AC rate element, the customer will also be required to purchase channel terminations and inter-office mileage from his serving wire center to the nearest appropriate inter-office network node (as determined by the Telephone Company). The Channel Termination and mileage (as required) will be purchased from the appropriate Special Access service tariff from which the baseline service would normally be ordered (e.g., Section 7.3.10 for High Capacity [DS1] service or Section 20.1 for MegaLink Custom [DS3] service). Multiplexer options are available only for High Capacity service used in conjunction with ReliaNet Off-Net ACs.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(A) Rate Categories (Cont'd)(2) Auxiliary Connections (Cont'd)

Intra-MAC AC is for those customer premises who have as their serving wire center the primary serving wire center of the MAC for that particular ReliaNet. There are two options for the Intra-MAC AC - the basic Intra-MAC and Intra-MAC Plus.

Intra-MAC

In this configuration the customer's serving wire center shares the same wire center as the MAC, therefore, no inter-office facilities are required to transport the AC traffic to the MAC. No alternate serving wire center protection is provided on the Intra-MAC.

Intra-MAC Plus

In this configuration the customer's serving wire center shares the same wire as the MAC (similar to the Intra-MAC); however, alternate serving wire center protection is provided, thus some inter-office transport is required and is provided as part of this rate element.

Both the Intra-MAC and Intra-MAC Plus AC rate elements provide the FOTs at the customer premises and at the inter-office network node(s) necessary to convert the SVO signal to the required connection bandwidth. They also provide the fiber loop facilities from the customer premises to the inter-office network node(s) (redundant routes when applicable)¹. No inter-office mileage need be ordered with this rate element. Also included in both Intra-MAC rate elements are the associated plug-in units, DSX cross-connection equipment necessary to connect the incoming service to the inter-office network node on the ReliaNet.

1 In some limited circumstances, depending on availability of facilities, for EC-1, DS3 and OC3c interfaces, the fiber facilities from the customer premises to the serving wire center will be single loop rather than redundant. As noted in Tariff F.C.C. No. 73, Section 20.1, by the end of 1997, all but 100 of the current MegaLink Custom lines in SWBT territory will be served from wire centers providing Loop Redundancy.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(A) Rate Categories (Cont'd)(2) Auxiliary Connection (Cont'd)

On-Net Option 2 and Off-Net ACs will not provide complete end-to-end facility redundancy due to the single facility link to the inter-office network, however, they will have complete facility redundancy from the point of connection at the inter-office network to the MAC customer premises.⁽¹⁾

The AC is available with access port hand-offs as follows: On-Net Option 1, Option 1 *Plus* and both Intra-MAC and Intra-MAC *Plus* ACs - EC-1, 1.544 Mbps (DS1), 44.736 Mbps (DS3) and OC3c. On-Net Option 2 - 1.544 Mbps (DS1) and Off-Net AC - 1.544 Mbps (DS1) and 44.736 Mbps (DS3). See Tables 2 - 5 preceding in 31.3.1 for matrices of the various port connection possibilities based on bandwidth availability. The DS1 port AC rate elements will be offered under 1 month, 3, 4 and 5 Year Minimum Periods. All other AC rate elements will be offered under 1, 3, 4 and 5 year Minimum Periods.

Any Off-Net AC (DS1 port) associated with an OPP (Optional Payment Plan - Sect. 7.2.19) or an HC-TPP (High Capacity-Term Pricing Plan - Sect. 7.2.20) account must be ordered to be co-terminous with the existing OPP or HC-TPP service, respectively. The High Capacity (DS1) services associated with these Off-Net ACs will remain under all applicable OPP or HC-TPP regulations as described in Section 7.2.19 or 7.2.20, respectively. Any On-Net AC (DS1 port) which, at the customer's request, is converted to the ReliaNet Service network will be removed from that customer's OPP or HC-TPP account [as specified in Section 7.2.19(C)(1)(c) - Decreasing the Minimum Monthly Revenue Commitment or 7.2.20(C)(6) - Upgrades of Service] and will then be charged and regulated by applicable ReliaNet rates, terms and conditions.

(1) This will also apply to those limited circumstances where EC-1, DS3 or OC3c interfaces are provisioned over single fiber loop facilities.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(A) Rate Categories (Cont'd)(2) Auxiliary Connection (Cont'd)

Although DS1 is the lowest bandwidth interface available on ReliaNet, the customer may connect Voice Grade Service or MegaLink Data Service as ordered under Sections 7.3.4 and 7.3.9, respectively, to an AC on a ReliaNet node. This connection can be made if the desired ReliaNet node is listed in National Exchange Carrier Association (NECA), Inc., Tariff F.C.C. No. 4 as having either DS1/DS0 or DS1/VG multiplexing capability.

The Auxiliary Connection Portability feature, as defined in Section 31.3.1(2) preceding, is available on all ACs, with the exception of the Intra-MAC ACs, provided that the new serving wire center is within the metropolitan area of that ReliaNet city and is listed in National Exchange Carrier Association (NECA), Inc., Tariff F.C.C. No. 4. Auxiliary Connection Portability will be provided only in those situations where facilities and equipment are available to do so. The cumulative quantity of SVOs, or equivalent, associated with the MAC must be maintained within the particular ReliaNet for the portability to be valid.

If the AC is not ordered directly by the MAC customer of record, the ordering customer is required to have a Letter of Agency from that MAC customer granting permission to utilize the ReliaNet network.

31. Synchronous Broadband Network Services (Cont'd)

31.3 ReliaNet Service (Cont'd)

31.3.2 Rate Regulations - (ReliaNet) (Cont'd)

(A) Rate Categories (Cont'd)

(3) MAC to MAC Connection

This rate element provides inter-office transport to allow the connection between one customer's MAC and a second MAC arrangement on the same ReliaNet network.

There are two arrangements under which the MAC to MAC Connection may exist. The first is where the two MACs being connected share the same primary serving wire center. The second is where the two MACs have different primary serving wire centers. The following rate structure is applicable to both arrangements.

MAC to MAC Connection is applicable on a per connection, per EC-1 basis. This rate element is non-distance sensitive and is incurred on a recurring and non-recurring charge basis. MAC to MAC Connection is available under 3, 4 and 5 Year Minimum Periods.

31. Synchronous Broadband Network Services (Cont'd)

31.3 ReliaNet Service (Cont'd)

31.3.2 Rate Regulations - (ReliaNet) (Cont'd)

(A) Rate Categories (Cont'd)

(4) AC to AC Connection

This rate element provides inter-office transport to allow the connection between one customer's AC and another AC on the same ReliaNet network.

There are two arrangements under which the AC to AC Connection may exist. The first is where the two ACs being connected share the same primary serving wire center. The second is where the two ACs have different primary serving wire centers. The following rate structure is applicable to both arrangements:

AC to AC Connection is applicable on a per connection, per EC-1, DS3 or OC3c basis. Since DS3 (44.736 Mbps) is the lowest bandwidth available for this connection, if DS1 signals are desired to be transported using this connection the customer will have to order a minimum of a DS3 level AC to AC Connection.

This rate element is non-distance sensitive and is incurred on a recurring and non-recurring charge basis. AC to AC Connection is available under 12 month, 3, 4 and 5 Year Minimum Periods.

The AC to AC Connection is available under the same Minimum Periods as its associated AC rate element as specified in Section 31.3.2(A) (2). A single AC to AC Connection rate (within each Minimum Period grouping) is applicable to the connection of all types and options of ACs (e.g., On-Net - all options, Intra-MAC, Off-Net).

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (e.g., installation or change to an existing service). Nonrecurring charges are applicable for initial and subsequent installations of service.

Easy Pay is a ReliaNet option which provides the customer the opportunity to pay nonrecurring charges on a monthly basis rather than in one up-front lump-sum payment. These charges are established on a contract term basis (12, 36, 48 or 60 month) and are incurred monthly along with any applicable recurring charges. Easy Pay Nonrecurring Charges for applicable ReliaNet rate elements are shown in detail on 31.3.3(E).

NRC Temporary Waiver

The Telephone Company will waive nonrecurring charges for all MACS and AC rate elements as follows:

<u>Minimum Period</u>	<u>Charges Waived</u>
36 Month	50% of Nonrecurring Charges
60 Month	100% of Nonrecurring Charges

The waiver period will end July 1, 2002. When the waiver period ends all nonrecurring charges will apply as set forth in 31.3.3 following.

(1) Nonrecurring Charges for MAC (Opt. A & B)

A nonrecurring charge applies on a per arrangement basis for each ReliaNet MAC ordered. The arrangement is defined as either a single or dual customer premises loop connection as described in 31.3.2(A) (1) preceding. Charges are set forth in 31.3.3.

(2) Nonrecurring Charges for On-Net AC - Opt. 1, Opt. 1 Plus, Intra-MAC, Intra-MAC Plus

A nonrecurring charge applies for each connection of an On-Net AC - Opt. 1, Opt. 1 Plus, Intra-MAC and Intra-MAC Plus customer premises to the ReliaNet interoffice network as described in 31.3.2(A) (2) preceding, on a first and additional basis, per EC-1, DS1, DS3 or OC3C. Charges are set forth in 31.3.3.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(B) Nonrecurring Charges (Cont'd)(3) Nonrecurring Charge for On-Net AC - Option 2

A nonrecurring charge applies for each connection of an On-Net AC - Opt. 2 customer premises to the ReliaNet interoffice network as described in 31.3.2(A)(2) preceding, on a first and additional basis, per each DS1 connection. Charges are set forth in 31.3.3.

(4) Nonrecurring Charge for Off-Net AC

A nonrecurring charge applies for each connection of an Off-Net AC customer premises to the ReliaNet interoffice network as described in 31.3.2(A)(2) preceding, on a first and additional basis, per each DS1 and DS3 connection. Charges are set forth in 31.3.3.

(5) Nonrecurring Charge for Service Rearrangements

Nonrecurring charges apply for Service Rearrangements or changes. Service Rearrangements are changes to existing services which do not result in either a change in Minimum Period requirements as set forth in 31.3.2(D) following. A change in service arrangement is a change in the physical location of the Point of Termination at the customer designated premises as set forth in 31.3.2(F) following.

A nonrecurring charge will apply per each ReliaNet channel (e.g., 45 Mbps, OC3, etc.) on a first and additional basis for the following change or combination of changes requested by the customer on the same Access Order and will be charged as set forth in 31.3.3(B)-(E).

- Change of Access Carrier Name Abbreviation (ACNA)
- Change of Billing Account Number (BAN)
- Change of customer Circuit Identification (CKR)

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(B) Nonrecurring Charges (Cont'd)(5) Nonrecurring Charge for Service Rearrangements
(Cont'd)

The customer requesting the administrative service rearrangements will be responsible for all billing associated with the changes requested.

When a change of customer name and change in billing data (name, address, contact name, or telephone number) are requested in association with a change in the customer of record, the Access Order Charge will apply as set forth in Section 5.4(A) (Access Order Charge).

(6) Nonrecurring Charges for Easy Pay Option

The customer may elect to pay certain ReliaNet nonrecurring charges on SWBT's Easy Pay option. If this option is chosen, nonrecurring charges for applicable ReliaNet rate elements will be selected from the table on 31.3.3(E) in lieu of the nonrecurring charges as set forth in 31.3.3(B) (C) or (D). The monthly payment term (12 month, 3 Year, 4 Year or 5 Year) for the Easy Pay Option may be selected by the customer not to exceed the Minimum Period for the associated rate element. For example, if the customer orders a MAC with a 3 Year Minimum Period, the Easy Pay Option if desired, may be either 12 month or 3 Years.

The Easy Pay charges consist of the normal nonrecurring charges amortized over the specific Minimum Period with interest charges included at the rate of 9%. These charges will apply on a monthly basis, in addition to any other applicable recurring rates, for the duration of the Minimum Period.

(7) Nonrecurring Charges for Auxiliary Connection Portability

Nonrecurring Charges apply when a customer elects to relocate SVO bandwidth under the Auxiliary Connection Portability provision, as discussed in 31.3.2(A) (2). The nonrecurring charge will be assessed on a per relocated AC basis. The specific charge will be the nonrecurring charge associated with the particular rate element which is being relocated, as specified in 31.3.3.

31. Synchronous Broadband Network Services (Cont'd)

31.3 ReliaNet Service (Cont'd)

31.3.2 Rate Regulations - (ReliaNet) (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(8) Nonrecurring Charges for MAC to MAC Connection

Nonrecurring Charges apply when the customer requests the connection of two ReliaNet MACs. A nonrecurring charge is assessed on a per connection, per EC-1 basis.

(9) Nonrecurring Charge for AC to AC Connection

Nonrecurring charges apply when the customer requests the connection of two ReliaNet ACs. A nonrecurring charge is assessed on a per connection, per EC-1 or DS3 basis. The charges are incurred on a first and additional basis.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(C) Monthly Recurring Rates

Monthly rates are recurring charges that apply each month that the service is provided and are specific to the Minimum Period selected by the customer.

(1) Monthly Recurring Rate for MAC - Opt. A & B

A monthly recurring rate will apply specific to the SVO selected by the customer. The MAC - Opt. A provides for connection of up to two customer premises locations to the inter-office network and includes flat-rated transport for distances up to 20 miles between the serving wire centers of the two customer premises locations. For calculation of this mileage, see Section 31.3.2(N) (Determining Transport Mileage).

The MAC - Opt. B provides for connection of one customer premises location to the interoffice network. Option B will only connect the customer to a single serving wire center on the interoffice network. MAC option A is available for SVO (3), (6), (12), (24) and (48). Both options are available at 3, 4 and 5 year Minimum Periods. MAC Opt. B is available for SVO (3), (6) and (12). Both options are available at 3, 4 and 5 year Minimum Periods.

(2) Monthly Recurring Rate for On-Net AC - Opt. 1, Opt. 1 Plus, Intra-MAC and Intra-MAC Plus

The monthly recurring Auxiliary Connection rate applies on a per each DS1, EC-1, DS3 and OC3C connection to the inter-office network. The same recurring rate applies independent of the size of the MAC SVO bandwidth. The On-Net AC - Opt. 1, Opt. 1 Plus, Intra-MAC (DS1 port) and Intra-MAC Plus (DS1 port) are available at 1 Month, 3, 4 and 5 year Minimum Periods. All other On-Net AC - Opt. 1, Opt. 1 Plus and Intra-MAC ports are available at 1, 3, 4 and 5 year Minimum Periods. Volume pricing is available for the On-Net AC - Opt. 1 and is applicable for EC-1 and DS3 port connections for quantities of (3), (6) or (12) EC-1s or DS3s, respectively. The monthly recurring rate for these volume priced ACs applies on a per each EC-1 or DS3 connection basis, however must be purchased in quantities of (3), (6), or (12) per service order to obtain these rates.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(C) Monthly Recurring Rates (Cont'd)(3) Monthly Recurring Rate for On-Net AC - Option 2

The monthly recurring Auxiliary Connection rate applies on a per DS1 connection to the inter-office network. The same recurring rate applies independent of the size of the MAC SVO bandwidth and is available at 1 month, 3 year, 4 year and 5 year Minimum Periods.

(4) Monthly Recurring Rate for Off-Net AC

The monthly recurring Auxiliary Connection rate applies on a per each DS1 and DS3 connection to the inter-office network. The same recurring rate applies independent of the MAC SVO bandwidth. The Off-Net AC (DS1 port) is available at 1 month, 3 year, 4 year and 5 year Minimum Periods. The DS3 Off-Net AC ports are available at 1 year, 3 year, 4 year and 5 year Minimum Periods.

With the Off-Net AC, the customer will be required to purchase Channel Termination and inter-office mileage from his serving wire center to the nearest appropriate inter-office network node (as determined by the Telephone Company). These rate elements will be purchased from the appropriate Special Access service tariff from which the baseline service would normally be ordered (e.g., Section 7.3.10 for High Capacity [DS1] service or Section 20.1 for MegaLink Custom [DS3] service).

31. Synchronous Broadband Network Services (Cont'd)

31.3 ReliaNet Service (Cont'd)

31.3.2 Rate Regulations - (ReliaNet) (Cont'd)

(C) Monthly Recurring Rates (Cont'd)

(5) Monthly Recurring Rate for MAC to MAC Connection

A monthly recurring rate applies to the MAC to MAC Connection as follows:

A recurring rate applies on a per connection, per EC-1 basis and is available at 3, 4 and 5 year Minimum Periods.

(6) Monthly Recurring Rate for AC to AC Connection

A monthly recurring rate applies to the AC to AC Connection as follows:

A recurring rate applies on a per connection, per EC-1 or DS3 basis and is available at 1, 3, 4 and 5 year Minimum Periods.

(7) Monthly Extension Rate

Upon expiration of an initial 48 month Minimum Period or a 4 Year Renewal the customer can subscribe to a new service or disconnect service. If the customer does not elect to subscribe to a new service or disconnect service, the Telephone Company will convert the customer's service to the monthly extension rates as listed in Section 31.3.3(F) and/or Section 39.5.2.13(A) (7).

(D) Minimum Period

ReliaNet rate elements are provided for a Minimum Period of 1, 12, 36, 48 or 60 months, at the customer's option. Not all rate elements are available at every Minimum Period. Applicable Minimum Period, are set forth in 31.3.2 (c) preceding.

When a service is discontinued prior to the expiration of the Minimum Period, the applicable charge will be the termination charges as described in Section 31.3.2(K) following.

The Minimum Period of an AC cannot exceed the remaining portion of the Minimum Period of its associated MAC.

31. Synchronous Broadband Network Services (Cont'd)

31.3 ReliaNet Service (Cont'd)

31.3.2 Rate Regulations - (ReliaNet) (Cont'd)

(E) Recast of Minimum Period

When a customer elects to recast (i.e., change) a ReliaNet Minimum period and no physical work is required, the nonrecurring charges as set forth in 31.3.2(B) preceding will not apply.

When a customer elects to recast a ReliaNet Minimum Period and physical work is required, only the applicable nonrecurring charges for the work being done will apply.

Nonrecurring charges as set forth in Section 5 (Ordering for Access Service) preceding which may be associated with ordering ReliaNet will apply.

(F) Moves

A move involves a change in the physical location of the Point of Termination within the customer's premises, or the move of the Point of Termination of an existing service to a new customer premises location as follows:

(1) Relocation

A move of the Point of Termination within the customer's premises will be treated as an extension of the Access Connection. Extension of the Access Connection will be provided, at the customer's request, on a time-sensitive charge basis. The labor rates which apply are as set forth in Section 13.4 (Rates and Charges) preceding. There will be no change in Minimum Period requirements.

A move of the Point of Termination which requires a change in customer premises location will also be treated as a relocation and charges will apply as set forth in the preceding paragraph. In addition, if the move of the customer's premises location involves a change in serving wire center, the situation may exist that the new serving wire center may not be included on the inter-office Network. If this is the case, the resulting move procedure will include the purchase of the Auxiliary Connection as described in 31.3.2(A) (2).

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(G) Additions of Service

The customer may elect to add service at any time subsequent to the initial installation of ReliaNet. All appropriate rate elements apply. The monthly recurring rates and nonrecurring charges for each subsequent addition shall be the same as those in effect at the time the service was initially established, except in those cases where a lower rate/charge has been subsequently introduced. In this case, the rates/charges will be those currently in effect. In the event that the customer initially purchased service during the nonrecurring charge waiver period and subsequently orders additional service after the waiver period has ended (May 1, 1998), the normal nonrecurring charge (at the time of service establishment) will apply to the additional rate elements. Any additions to service subsequent to the initial order but prior to the end of the nonrecurring waiver will continue to have nonrecurring charges waived.

Subsequent service additions are for a given ReliaNet arrangement and may not exceed the Minimum Period of the associated MAC rate element and are subject to all applicable ReliaNet terms and conditions.

In the event the ReliaNet customer elects a renewal option listed in Section 31.3.2 (H) at the rates listed in Section 31.3.3(D) and/or 39.5.2.13(A) (4), the rates for subsequent ACs placed on renewed MAC arrangements will be the ReliaNet renewal rates in effect at the time the customer renewed the given MAC arrangement.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(H) Optional Renewal Periods

ReliaNet offers three Optional Renewal plans - Annual, 4 Year and 5 Year Renewals. The customer, at the end of their initial Minimum Period, may select one or the other of the two following plans. The plans may not be mixed once one is selected. Regulations for the three plans are as follows.

(1) Annual Renewal⁽¹⁾

Upon completion of the 12, 36 or 60 month Minimum Period, the customer may elect to annually renew ReliaNet for up to five (5) one-year periods, terminate ReliaNet under provisions in Section 31.3.2(K) following, or absent either of those elections, continue on a month-to-month arrangement at the last month's charges as set forth in 31.3.3(A) or 31.3.3(B) following. If the customer elects to renew, the monthly recurring charges for each of the Optional Renewal Periods will be the customer's monthly recurring charges at the conclusion of the immediately preceding Minimum Period or Optional Renewal Period and modified by the following table:

<u>Optional Renewal Year</u>	<u>MAC Multiplier</u>	<u>AC Multiplier</u>
1	.90	.99
2	.95	.99
3	.95	.99
4	.95	.99
5	.95	.99

EXAMPLE

Assume the customer has a MAC with a monthly recurring charge of \$42,670.50 and elects to renew for a one-year period for each of the next two consecutive years. The monthly recurring charge in this example would be calculated as follows:

Year

1	$\$42,670.50 \times .90 = \$38,403.45$
2	$\$38,403.45 \times .95 = \$36,483.27$

(1) This offering is obsolete and limited to existing customers at existing locations as of March 9, 2001.

31. Synchronous Broadband Network Services (Cont'd)31.3 ReliaNet Service (Cont'd)31.3.2 Rate Regulations - (ReliaNet) (Cont'd)(H) Optional Renewal Periods (Cont'd)(2) 4 Year Renewal

Upon completion of a 12 month minimum period or the initial 36, 48 or 60 month Minimum Period, the customer may elect to renew the ReliaNet for a full 4 year renewal period.

(3) 5 Year Renewal

Upon completion of the 12⁽¹⁾, 36, 48 or 60 month Minimum Period, the customer may elect to renew the ReliaNet for a full 5 year renewal period.

If the customer chooses this renewal option, the Optional Renewal Period monthly recurring charges will be the customer's monthly recurring charges at the conclusion of the immediately preceding Minimum Period modified by the following table:

Optional Renewal Term	MAC Multiplier	AC Multiplier
5 Years	.70 (Rx)	.70 (Rx)

EXAMPLE

Assume the customer has an AC with a monthly recurring charge of \$10,000 and a MAC with a monthly recurring charge of \$40,000 and elects to renew for a full 5 year Minimum Period. The monthly recurring charge in this example would be calculated as follows:

Years

$$1-5 \quad (\$10,000 \times .70) + (\$40,000 \times .70) = \$35,000$$

(I) Special Access Surcharge

Regulations for the Special Access Surcharge apply for all jurisdictionally interstate special access facilities as set forth in Section 7.2.5 (Surcharge for Special Access Service) preceding.

(J) Message Station Equipment Recovery Charge

Regulations for the Message Station Equipment Recovery Charge apply as set forth in Section 7.2.17 (Message Station Equipment Recovery Charge) preceding.

31. Synchronous Broadband Network Services (Cont'd)

31.3 ReliaNet Service (Cont'd)

31.3.2 Rate Regulations - (ReliaNet) (Cont'd)

(K) Termination Options

(1) Complete Termination

No termination liability charge applies for complete termination.

(2) Partial Termination

No termination liability charge applies for partial termination.