A21. RESOLD FOREIGN EXCHANGE SERVICE (N)

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A21. RESOLD FOREIGN EXCHANGE SERVICE

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A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (N)

Resold Foreign Exchange Service provides a two-point electrical communications path between a Reseller's terminal location and an end user's premises. It provides for the use of common terminating, switching and trunking facilities, and common subscriber plant of the Company. Resold Foreign Exchange Service provides for the ability to originate calls from an end user's premises to a Reseller's terminal location, and to terminate calls from a Reseller's terminal location to an end user's premises within the Local Calling Area where it is provided. Specific references to material describing the elements of Resold Foreign Exchange Service are provided in A21.2.1 following. (N)

Rates and charges for Resold Foreign Exchange Service are set forth in A21.8 following and the application of these rates are described in A21.7 following. (N)

Resold Foreign Exchange Service is furnished in quantities of lines or on a per line basis. (N)

A21.1.1 Rate Categories (N)

There are three rate categories which apply to Resold Foreign Exchange Service. (N)

- Local Transport (described in A21.1.1.A. following) (N)
- End Office (described in A21.1.1.B. following) (N)
- Carrier Common Line (described in A21.1.1.C. following) (N)

A. Local Transport (N)

The Local Transport rate category provides the transmission facilities between the Reseller's terminal location and the end office switch(es) where the Reseller's traffic is switched to originate or terminate the Reseller's communications. For purposes of determining Local Transport mileage, distance will be measured from the wire center that normally serves the Reseller's terminal location to the end office switch. (N)

Local Transport is a two-way voice frequency transmission path composed of facilities determined by the Company. The two-way voice frequency transmission path permits the transport of calls in the originating direction (from the end user end office switch to the Reseller's terminal location) and in the terminating direction (from the Reseller's terminal location to the end office switch), but not simultaneously. The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz. (N)

Local Transport is provided at the rates and charges set forth in A21.8.1. following. (N)

1. Interface Groups

Ten Interface Groups are provided for terminating the Local Transport at the Reseller's terminal location. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, the individual transmission path between the Reseller's terminal location and the first point of switching may at the option of the Reseller be provided with optional features as set forth in 4.a. and b. following. (N)

As a result of the Reseller's order and the type of Company transport facilities serving the Reseller's terminal location, the need for signaling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Company equipment be placed at the Reseller's terminal location. For example, if a voice frequency interface is ordered by the Reseller and the Company facilities serving the Reseller's terminal location are digital, then Company channel bank equipment must be placed at the Reseller's terminal location in order to provide the voice frequency interface ordered by the Reseller. (N)

Interface Group 1 is provided with Type C Transmission Specifications and Interface Groups 2 through 10 are provided with Type B Transmission Specifications. All Interface Groups are provided with Data Transmission Parameters. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (Cont'd) (N)

A21.1.1 Rate Categories (Cont'd) (N)

A. Local Transport (Cont'd) (N)

1. Interface Groups (Cont'd)

Only certain premises interfaces are available at the Reseller terminal locations. The various premises interfaces which are available are set forth as follows. (N)

a. Interface Group 1 (USOC TPP1X) (N)

Interface Group 1 provides two-wire voice frequency transmission at the point of interface at the Reseller's terminal location. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz. (N)

The transmission path between the point of interface at the Reseller's terminal location and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz. (N)

The interface is provided with loop or ground start supervisory signaling. (N)

b. Interface Group 2 (USOC TPP2X) (N)

Interface Group 2 provides four-wire voice frequency transmission at the point of interface at the Reseller's terminal location. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz. (N)

The transmission path between the point of interface at the Reseller's terminal location and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz. (N)

The interface is provided with loop or ground start supervisory signaling. (N)

c. Interface Group 3 (USOC TPP3X) (N)

Interface Group 3 provides a group level analog transmission at the point of interface at the Reseller's terminal location. The interface is capable of transmitting electrical signals between the frequencies of 60 to 180 kHz, with the capability to channelize up to 12 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Company will provide multiplex equipment to derive 12 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz. (N)

The interface is provided with individual transmission path SF supervisory signaling. (N)

d. Interface Group 4 (USOC TPP4X) (N)

Interface Group 4 provides supergroup level analog transmission at the point of interface at the Reseller's terminal location. The interface is capable of transmitting electrical signals between the frequencies of 312 to 552 kHz, with the capability to channelize up to 60 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Company will provide multiplex and channel bank equipment to derive 60 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz. (N)

The interface is provided with individual transmission path SF supervisory signaling. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (Cont'd) (N)

A21.1.1 Rate Categories (Cont'd) (N)

A. Local Transport (Cont'd) (N)

1. Interface Groups (Cont'd)

e. Interface Group 5 (USOC TPP5X) (N)

Interface Group 5 provides mastergroup level analog transmission at the point of interface at the Reseller's terminal location. The interface is capable of transmitting electrical signals between the frequencies of 564 to 3084 kHz, with the capability to channelize up to 600 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Company will provide multiplex and channel bank equipment to derive 600 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz. (N)

The interface is provided with individual transmission path SF supervisory signaling. (N)

f. Interface Group 6 (USOC TPP6X) (N)

Interface Group 6 provides DS1 level digital transmission at the point of interface at the Reseller's terminal location. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Company will provide multiplex and channel bank equipment to derive up to 24 voice frequency transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Company will provide, at the first point of switching, a DS1 signal in D3/D4 format. (N)

The interface is provided with individual transmission path bit stream supervisory signaling. (N)

g. Interface Group 7 (USOC TPP7X) (N)

Interface Group 7 provides a DS1C level digital transmission at the point of interface at the Reseller's terminal location. The interface is capable of transmitting electrical signals at a nominal 3.152 Mbps, with the capability to channelize up to 48 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Company will provide multiplex and channel bank equipment to derive up to 48 voice frequency transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Company will provide, at the first point of switching, DS1 signals in D3/D4 format. (N)

The interface is provided with individual transmission path bit stream supervisory signaling. (N)

h. Interface Group 8 (USOC TPP8X) (N)

Interface Group 8 provides DS2 level digital transmission at the point of interface at the Reseller's terminal location. The interface is capable of transmitting electrical signals at a nominal 6.312 Mbps, with the capability to channelize up to 96 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Company will provide multiplex and channel bank equipment to derive up to 96 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Company will provide, at the first point of switching, DS1 signals in D3/D4 format. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (Cont'd) (N)

A21.1.1 Rate Categories (Cont'd) (N)

A. Local Transport (Cont'd) (N)

1. Interface Groups (Cont'd)

h. Interface Group 8 (USOC TPP8X) (Cont'd) (N)

The interface is provided with individual transmission path bit stream supervisory signaling. (N)

i. Interface Group 9 (USOC TPP9X) (N)

Interface Group 9 provides DS3 level digital transmission at the point of interface at the Reseller's terminal location. The interface is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Company will provide multiplex and channel bank equipment to derive up to 672 voice frequency transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Company will provide, at the first point of switching, DS1 signals in D3/D4 format. (N)

The interface is provided with individual transmission path bit stream supervisory signaling. (N)

j. Interface Group 10 (USOC TPPAX) (N)

Interface Group 10 provides DS4 level digital transmission at the point of interface at the Reseller's terminal location. The interface is capable of transmitting electrical signals at a nominal 274.176 Mbps, with the capability to channelize up to 4032 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Company will provide multiplex and channel bank equipment to derive up to 4032 voice frequency transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Company will provide, at the first point of switching, DS1 signals in D3/D4 format. (N)

The interface is provided with individual transmission path bit stream supervisory signaling. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (Cont'd) (N)

A21.1.1 Rate Categories (Cont'd) (N)

A. Local Transport (Cont'd) (N)

2. Available Premises Interface Codes (N)

Following is a matrix showing, for each Interface Group, which premises interface codes are available as a function of the Company switch supervisory signaling. For explanations of these codes, see 3. following. (N)

INTERFACE GROUP	TELEPHONE COMPANY SWITCH SUPERVISORY SIGNALING	PREMISES INTERFACE CODE	
1	LO	2LS2	(N)
	LO	2LS3	(N)
	GO	2GS2	(N)
	GO	2GS3	(N)
	LO, GO	2DX3	(N)
	LO, GO	4EA3-E	(N)
	LO, GO	4EA3-M	(N)
	LO, GO	6EB3-E	(N)
	LO, GO	6EB3-M	(N)
2	LO, GO	4SF2	(N)
	LO, GO	4SF3	(N)
	LO	4LS2	(N)
	LO	4LS3	(N)
	LO	6LS2	(N)
	GO	4GS2	(N)
	GO	4GS3	(N)
	GO	6GS2	(N)
	LO, GO	4DX2	(N)
	LO, GO	4DX3	(N)
	LO, GO	6EA2-E	(N)
	LO, GO	6EA2-M	(N)
	LO, GO	8EB2-E	(N)
	LO, GO	8EB2-M	(N)
	LO, GO	6EX2-B	(N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (Cont'd) (N)

A21.1.1 Rate Categories (Cont'd) (N)

A. Local Transport (Cont'd) (N)

2. Available Premises Interface Codes (Cont'd) (N)

INTERFACE GROUP	TELEPHONE COMPANY SWITCH SUPERVISORY SIGNALING	PREMISES INTERFACE CODE	
3	LO, GO	4AH5-B	(N)
4	LO, GO	4AH6-C	(N)
5	LO, GO	4AH6-D	(N)
6	LO, GO	4DS9-15	(N)
	LO, GO	4DS9-15L	(N)
7	LO, GO	4DS9-31	(N)
	LO, GO	4DS9-31L	(N)
8	LO, GO	4DS0-63	(N)
	LO, GO	4DS0-63L	(N)
9	LO, GO	4DS6-44	(N)
	LO, GO	4DS6-44L	(N)
10	LO, GO	4DS6-27	(N)
	LO, GO	4DS6-27L	(N)

3. Premises Interface Codes (N)

a. This paragraph explains the premises interface codes set forth in 2. preceding that the Reseller can specify when ordering Resold Foreign Exchange Service. Included is an example which explains the specific characters of the code, a glossary of premises interface codes and impedance levels. (N)

Example: If the Reseller specifies a 4EA3-E premises interface at the Reseller's terminal location, it is requesting the following: (N)

4 .....Number of physical wires at Reseller's terminal location (N)

EA.....Premises interface code for Type I, E&M lead signaling (N)

3 .....Impedance (N)

E .....End user at network interface (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (Cont'd) (N)

A21.1.1 Rate Categories (Cont'd) (N)

A. Local Transport (Cont'd) (N)

3. Premises Interface Codes (Cont'd) (N)

b. Glossary of Premises Interface Codes and Options (N)

Code - Option	Definition	
AH	Analog high capacity interface	(N)
- B	60 kHz to 180 kHz (12 channels)	(N)
- C	312 kHz to 552 kHz (60 channels)	
- D	564 kHz to 3084 kHz (600 channels)	
DS	Digital hierarchy interface	(N)
- 15	1.544 Mbps (DS1) format per PUB 41451 plus D4	(N)
- 15L	1.544 Mbps (DS1) with SF signaling	(N)
- 27	274.176 Mbps (DS4)	(N)
- 27L	274.176 Mbps (DS4) with SF signaling	(N)
- 31	3.152 Mbps (DS1C)	(N)
- 31L	3.152 Mbps (DS1C) with SF signaling	(N)
- 44	44.736 Mbps (DS3)	(N)
- 44L	44.736 Mbps (DS3) with SF signaling	(N)
- 63	6.312 Mbps (DS2)	(N)
- 63L	6.312 Mbps (DS2) with SF signaling	(N)
DX	Duplex signaling interface at Reseller's point of interface.	(N)
EA	Type I, E&M lead signaling.	(N)
- E	Reseller at point of interface or end user at network interface originates on E lead.	(N)
- M	Reseller at point of interface or end user at network interface originates on M Lead.	(N)
EB	Type II, E&M lead signaling.	(N)
- E	Reseller at point of interface or end user at network interface originates on E Lead.	(N)
- M	Reseller at point of interface or end user at network interface originates on M lead.	(N)
EC	Type III, E&M signaling at Reseller's point of interface.	(N)
EX	Tandem channel unit signaling for loop start or ground start	(N)
- A	Reseller supplies open end (dial pulsing, etc.) functions.	(N)
- B	Reseller supplies closed end (dial pulsing, etc.) functions.	(N)
GS	Ground start loop signaling - closed end functions by Reseller or end user	(N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (Cont'd) (N)

A21.1.1 Rate Categories (Cont'd) (N)

A. Local Transport (Cont'd) (N)

3. Premises Interface Codes (Cont'd) (N)

b. Glossary of Premises Interface Codes and Options (Cont'd) (N)

Code - Option	Definition	
LS	Loop start loop signaling - closed end functions by Reseller or end user	(N)
SF	Single frequency signaling within VF band at either Reseller point of interface or end user network interface	(N)

c. Impedance (N)

The nominal reference impedance with which the channel will be terminated for the purposes of evaluating transmission performance. (N)

Value (ohms)	Code(s)	
110	0	(N)
600	2	(N)
900	3	(N)
135	5	(N)
75	6	(N)
100	9	(N)

d. Digital Hierarchy Premises Interface Codes (N)

These premises interfaces are available only to Resellers that select the multiplexed four-wire DSX-1 or higher premises interface option at the Reseller's terminal location and provide subsequent system and channel assignment data. (N)

The various digital bit rates in the digital hierarchy employ the premises interface codes 4DS9, 4DS0 or 4DS6 plus the speed options indicated below: (N)

Interface Code and Speed Option	Nominal Bit Rate (Mbps)	Digital Hierarchy Level	
4DS9-15	1.544	DS1	(N)
4DS9-15L	1.544	DS1	(N)
4DS9-31	3.152	DS1C	(N)
4DS9-31L	3.152	DS1C	(N)
4DS0-63	6.312	DS2	(N)
4DS0-63L	6.312	DS2	(N)
4DS6-44	44.736	DS3	(N)
4DS6-44L	44.736	DS3	(N)
4DS6-27	274.176	DS4	(N)
4DS6-27L	274.176	DS4	(N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (Cont'd) (N)

A21.1.1 Rate Categories (Cont'd) (N)

A. Local Transport (Cont'd) (N)

4. Nonchargeable Optional Features (N)

Where transmission facilities permit, the Company will, at the option of the Reseller, provide the following nonchargeable optional features in association with Local Transport. (N)

a. Supervisory Signaling (N)

Where the transmission parameters permit, and where signaling conversion is required by the Reseller to meet its signaling capability, the Reseller may order an optional supervisory signaling arrangement for each transmission path provided as follows: (N)

- For Interface Groups 1 and 2 (N)

DX Supervisory Signaling, (N)
E&M Type I Supervisory Signaling,
E&M Type II Supervisory Signaling, or
E&M Type III Supervisory Signaling

- For Interface Group 2 (N)

SF Supervisory Signaling (N)

- For Interface Groups 6 through 10 (N)

These Interface Groups may, at the option of the Reseller, be provided with individual transmission path SF supervisory signaling where such signaling is available in Company central offices. Generally such signaling is available only where the entry switch provides an analog, i.e., non digital, interface to the transport termination. (N)

b. Reseller Specified Entry Switch Receive Level (N)

This feature allows the Reseller to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference PUB 62500. This feature is available with Interface Groups 2 through 10. (N)

B. End Office (N)

The End Office rate category provides the local end office switching and end user termination functions necessary to complete the transmission of Resold Foreign Exchange Service communications to and from the end users served by the local end office. The End Office rate category includes the Local Switching, Line Termination, Intercept and Information (i.e., Directory Assistance) rate elements. Directory Assistance Service and the applicable rates for it are set forth in Section E9. of the Company's Access Service Tariff. (N)

1. Local Switching (N)

The Local Switching rate element (LS1) provides for the use of end office switching equipment. (N)

LS1 is measured on an originating and terminating basis. Rates are applied based on the total number of minutes of use, as set forth in A21.8.2 following. (N)

There are two types of local switching functions, i.e., Common Switching functions and Transport Termination functions. These are described in a. and b. following. (N)

a. Common Switching (N)

(1) The Common Switching provides the local end office switching functions. The Common Switching arrangements provided for the Resold Foreign Exchange Service are described in A21.2 following. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (Cont'd)

A21.1.1 Rate Categories (Cont'd)

B. End Office (Cont'd)

1. Local Switching (Cont'd)
   a. Common Switching (Cont'd)
      (2) Included as part of the Common Switching are various nonchargeable optional features which the Reseller can order to meet its specific communications requirements. These optional features are described in A21.3.1 following.
   b. Transport Termination
      (1) Transport Termination provides for the line or trunk side arrangements which terminate the Local Transport facilities. Included as part of Transport Termination are various nonchargeable optional termination arrangements. These optional terminating arrangements are described in A21.2 following.
      (2) The number of Transport Terminations provided will be determined by the Company as set forth in A21.5.5 following.
2. Line Termination
   a. The Line Termination rate element provides the terminations for the end user lines terminating in the local end office. Line Termination rates are set forth in A21.8.2.
3. Intercept
   a. The Intercept rate element provides for the termination of a call at a Company intercept recording. The operator or recording tells a caller why a call, as dialed, could not be completed, and if possible, provides the correct number. (C)
   b. Intercept rates are applied on an access minutes basis and are assessed to an Reseller based on the total number of access minutes. Intercept rates are set forth in A21.8.2 following.

C. Carrier Common Line

Carrier Common Line (CCL) charge provides for the use of Company Common Lines by Resellers for access to end users to furnish communications service and are applied as Premium or Non-premium.

1. Premium Usage
   a. Premium usage rates apply when the Resold Foreign Exchange Service is provided from an end office converted to Equal Access.
   b. Usage associated with each end office equipped for equal access will be multiplied by the Carrier Common Line charge specified in A21.8.3 following.
2. Non-Premium Usage
   a. Non-premium usage rates apply when the Resold Foreign Exchange Service is provided from an end office not yet converted to Equal Access.
   b. Usage associated with each office not arranged for Equal Access capability will be multiplied by .65 and then multiplied by the Carrier Common Line charge specified in A21.8.3 following.

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.1 General (Cont'd)

A21.1.2 Special Facilities Routing

A Reseller may request that the facilities used to provide Resold Foreign Exchange Service be specially routed. The ***terms, conditions***, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable Only) are set forth in E11. of the Company's Access Service Tariff. (T)

A21.1.3 Design Layout Report

A. At the request of a Reseller the Company will provide to the Reseller the makeup of the facilities and services provided under this ***Guidebook*** as Resold Foreign Exchange Service to aid the Reseller in designing its overall service. This information will be provided in the form of a Design Layout Report. (T)

B. The Design Layout Report will be provided to the Reseller at no charge, and will be reissued or updated whenever these facilities are materially changed.

A21.1.4 Acceptance Testing

A. At no additional charge, the Company will, at the Reseller's request, cooperatively test, at the time of installation, the following parameters:

- Loss,
- C-Notched noise
- C-Message noise,
- Three-Tone Slope,
- DC Continuity,
- Operational Signaling, and
- Balance[1] (equal level echo path loss)

A21.1.5 Ordering Options and Conditions

A. Resold Foreign Exchange Service is ordered under the Access Order provisions set forth in E5. of the Company's Access Service Tariff. Also, included in that section are other charges which may be associated with ordering Resold Foreign Exchange Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

A21.2 Provision and Description of Resold Foreign Exchange Service

The provision of Resold Foreign Exchange Service requires Local Transport facilities and the appropriate End Office functions.

There are two specific transmission specifications (i.e., Types B and C) that have been identified for the provision of Resold Foreign Exchange Service. The specific specifications provided are dependent on the Interface Group. The parameters for the transmission specifications are set forth in A21.4.1. following.

Note 1: This test may also be performed when the Local Transport is provided with a Type 2 Interface (Groups 2 through 10) and the Transport Termination is two-wire (i.e., a four-wire to two-wire conversion in Local Transport).

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.2 Provision and Description of Resold Foreign Exchange Service (Cont'd) (N)

Resold Foreign Exchange Service is arranged for either originating, terminating or two-way calling, based on the Reseller's end office switching busy hour minutes of capacity ordered. Originating calling permits the delivery of calls from telephone exchange service locations to the Reseller's terminal location. Terminating calling permits the delivery of calls from the Reseller's terminal location to telephone exchange service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Company will determine the type of calling to be provided unless the Reseller specifies in its order that a different type of directional calling is to be provided. In such cases, the Company will work cooperatively with the Reseller to determine the directionality. (N)

There are various nonchargeable optional features available with the Resold Foreign Exchange Service. These optional features are provided as Local Transport or Common Switching or Transport Termination options. (N)

Following are detailed descriptions of each for Resold Foreign Exchange Service. Resold Foreign Exchange Service is described in terms of its specific physical characteristics and calling patterns, the transmission specifications with which it is provided, the optional features available for use with it and the standard testing capabilities. (N)

A21.2.1 Resold Foreign Exchange Service (N)

A. Description (N)

1. Resold Foreign Exchange Service is provided in connection with Company electronic and electromechanical end offices. At the option of the Reseller, Resold Foreign Exchange Service is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling. Resold Foreign Exchange Service is arranged for use by the Reseller in the provision of MTS/WATS type service. (N)
2. Resold Foreign Exchange Service provides a line side termination at the first point of switching. The line side termination will be provided with either ground start supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the Reseller. (N)
3. The Company shall select the first point of switching, within the selected Local Calling Area, at which the line side termination is to be provided unless the Reseller requests a different first point of switching and Company facilities and measurement capabilities are available to accommodate such a request. (N)
4. A seven digit local telephone number assigned by the Company is provided for access to Resold Foreign Exchange Service switching in the originating direction. The seven digit local telephone number will be associated with the selected end office switch and is of the form NXX-XXXX. (N)

   If the Reseller requests a specific seven digit telephone number that is not currently assigned, and the Company can, with reasonable effort, comply with that request, the requested number will be assigned to the Reseller. (N)
5. Resold Foreign Exchange Service switching, when used in the terminating direction is arranged with dial tone start-dial signaling. When used in the terminating direction Resold Foreign Exchange Service switching may, at the option of the Reseller, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When Resold Foreign Exchange Service switching is provided in a hunt group or uniform call distribution arrangement, all Resold Foreign Exchange Service switching will be arranged for the same type of address signaling. (N)
6. No address signaling is provided by the Company when Resold Foreign Exchange Service switching is used in the originating direction. Address signaling in such cases, if required by the Reseller, must be provided by the Reseller's customer using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Company and will be subject to the ordinary transmission capabilities of the Local Transport provided. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.2 Provision and Description of Resold Foreign Exchange Service (Cont'd)

A21.2.1 Resold Foreign Exchange Service (Cont'd)

A. Description (Cont'd)

7. Resold Foreign Exchange Service switching in providing MTS/WATS like service, and used in the terminating direction, may be used to access valid NXXs in the Local Calling Area, local operator service (O- and O+) Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), exchange telephone repair (611 where available), time or weather announcement services of the Company, community information services of an information service provider, and other Reseller's services (by dialing the appropriate digits). Charges for Resold Foreign Exchange Service terminating calls requiring operator assistance on calls to 611 or 911 will only apply where sufficient call details are available. Additional charges will also be billed on a separate account for (1) an operator surcharge, as set forth in the ***General Exchange Guidebook***, for local operator assistance (0- and 0+) calls; (2) calls to certain community information services, for which rates are applicable under ***the General Exchange Guidebook***, e.g., DIAL-IT Network Services; and (3) calls from a Resold Foreign Exchange Service line to another Reseller's service in accordance with that Reseller's applicable service rates when the Company performs the billing for that Reseller. For calls to Directory Assistance (411 where available and 555-1212), Local Transport rates for Resold Foreign Exchange Service will not apply. Instead, Local Transport for calls to this service is subject to a per call rate as set forth in E9.5.2 of the Company's Access Service Tariff. Additionally, calls to Directory Assistance are subject to the Directory Assistance Service Call rate as set forth in E9.5.2 of the Company's Access Service Tariff. (T)

8. When a Resold Foreign Exchange Service for an individual Reseller (a single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

B. Optional Features

1. Common Switching Optional Features
   a. Hunt Group Arrangement
   b. Uniform Call Distribution Arrangement
   c. Nonhunting Number for use with Hunt Group Arrangement or U.C.D. Arrangement
   d. Call Denial
   e. Service Code Denial
2. Transport Termination Optional Features
   a. Two-way operation with dial pulse address signaling and loop start supervisory signaling
   b. Two-way operation with dial pulse address signaling and ground start supervisory signaling
   c. Two-way operation with dual tone multifrequency address signaling and loop start supervisory signaling
   d. Two-way operation with dual tone multifrequency address signaling and ground start supervisory signaling
   e. Terminating operation with dial pulse address signaling and loop start supervisory signaling
   f. Terminating operation with dial pulse address signaling and ground start supervisory signaling

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.2 Provision and Description of Resold Foreign Exchange Service (Cont'd)

A21.2.1 Resold Foreign Exchange Service (Cont'd)

B. Optional Features (Cont'd)

2. Transport Termination Optional Features (Cont'd)
   - g. Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling
   - h. Terminating operation with dual tone multifrequency address signaling and ground start supervisory signaling
   - i. Originating operation with loop start supervisory signaling
   - j. Originating operation with ground start supervisory signaling
3. Local Transport Optional Features
   - a. Supervisory Signaling
   - b. Reseller Specified Entry Switch Receive Level
4. Certain other features which may be available in connection with Resold Foreign Exchange Service are provided under the Company's ***General Exchange Guidebook***. Examples are: (T)
   - a. Speed Calling
   - b. Remote Call Forwarding
   - c. IntraLATA extensions

C. Transmission Specifications

Resold Foreign Exchange Service is provided with either Type B or Type C Transmission specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission specifications is provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with Resold Foreign Exchange Service to the first point of switching.

D. Testing Capabilities

Resold Foreign Exchange Service is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in A21.1.4 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing and Non-Scheduled Testing will be provided as set forth in E13. of the Company's Access Service Tariff.

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.3 Common Switching Nonchargeable Optional Features (N)

A21.3.1 Common Switching Optional Features (N)

A. Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with the Resold Foreign Exchange Service. (N)

1. Call Denial on Line or Hunt Group (N)

   This option allows for the screening of terminating calls within the Local Calling Area for Resellers and for completion only of calls to 411, 611, 911, 800, 555-1212, and a specified set of NXXs within the local exchange calling area of the dial tone office in which the arrangement is provided. All other "toll" calls are routed to a reorder tone or recorded announcement. This feature is provided in all Company electronic end offices and, where available, in electromechanical end offices. (N)

2. Service Code Denial on Line or Hunt Group (N)

   This option allows for the screening of terminating calls within the Local Calling Area for resellers, and for disallowing completion of calls to 0- and N11 (e.g., 411, 611 and 911). This feature is provided where available in all Company electronic end offices and electromechanical end offices. (N)

3. Hunt Group Arrangement (N)

   This option provides the ability to sequentially access one of two or more line side connections in the originating direction. This arrangement contemplates one telephone number per arrangement. (N)

4. Uniform Call Distribution Arrangement (N)

   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 Company electronic end offices only. (N)

5. Nonhunting Number for use with Hunt Group or Uniform Call Distribution Arrangement (N)

   This option provides an arrangement for an individual line within a multiline hunt or UCD group that provides access to that line within the hunt or UCD group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is provided in Company electronic end offices only. (N)

A21.4 Transmission Specifications (N)

Each Resold Foreign Exchange Service transmission path is provided with a standard transmission specification. There are two different standard specifications (Types B and C). The standard for a particular transmission path is dependent on the Interface Group. The available transmission specifications are set forth in A21.4.1 following. Data Transmission Parameters are also provided with each Resold Foreign Exchange Service Transmission path. The Company will, upon notification by the Reseller that the parameters set forth in A21.4.2.A. or A21.4.2.B. following are not being met, conduct tests independently or in cooperation with the Reseller, and take any necessary action to insure that the data parameters are met. The testing will be charged for at the rates set forth in E13. of the Company's Access Service Tariff for Non-scheduled Testing. (N)

The transmission specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Technical Reference PUB 62500. This Technical Reference also provides the basis for determining Resold Foreign Exchange Service maintenance limits. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.4 Transmission Specifications (Cont'd) (N)

A21.4.1 Standard Transmission Specifications (N)

Following are descriptions of the two Standard Transmission Specifications available with Resold Foreign Exchange Service. The specific applications in terms of the Interface Groups are provided as set forth in A21.2.1.C. preceding. (N)

A. Type B Transmission Specifications (N)

Type B Transmission Specifications are provided with the following parameters: (N)

1. Loss Deviation (N)

   The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is +/- 2.5 dB. (N)

2. Attenuation Distortion (N)

   The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB. (N)

3. C-Message Noise (N)

   The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to: (N)

	C-Message Noise[1]		(N)
Route Miles	**Type B1**	**Type B2**	(N)
less than 50	32 dBrnCO	35 dBrnCO	(N)
51 to 100	33 dBrnCO	37 dBrnCO	(N)
101 to 200	35 dBrnCO	40 dBrnCO	(N)
201 to 400	37 dBrnCO	43 dBrnCO	(N)
401 to 1000	39 dBrnCO	45 dBrnCO	(N)

4. C-Notch Noise (N)

   The maximum C-Notch Noise, utilizing a -16 dBmO holding tone is less than or equal to 47 dBrnCO. (N)

5. Echo Control (N)

   Echo Control, identified as Impedance Balance, is expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL). The ERL and SRL also differ by type of termination and type of transmission path. They are equal to or greater than the following: (N)

Routing Configuration	Echo Return Loss	Singing Return Loss	(N)
POI to End Office	16 dB	11 dB	(N)

Note 1: For Resold Foreign Exchange Service Type B1 or B2 will be provided as set forth in Technical Reference PUB 62500. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.4 Transmission Specifications (Cont'd) (N)

A21.4.1 Standard Transmission Specifications (Cont'd) (N)

A. Type B Transmission Specifications (Cont'd) (N)

6. Standard Return Loss (N)

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of interface shall be equal to or greater than: (N)

Echo Return Loss	Singing Return Loss	
5 dB	2.5 dB	(N)

B. Type C Transmission Specifications (N)

Type C Transmission Specifications are provided with the following parameters: (N)

1. Loss Deviation (N)

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is +/-3.0 dB. (N)

2. Attenuation Distortion (N)

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB. (N)

3. C-Message Noise (N)

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to: (N)

	C-Message Noise[1]		
Route Miles	Type C1	Type C2	
less than 50	32 dBrnCO	38 dBrnCO	(N)
51 to 100	33 dBrnCO	39 dBrnCO	(N)
101 to 200	35 dBrnCO	41 dBrnCO	(N)
201 to 400	37 dBrnCO	43 dBrnCO	(N)
401 to 1000	39 dBrnCO	45 dBrnCO	(N)

4. C-Notch Noise (N)

The maximum C-Notch Noise utilizing a-16 dBmO holding tone is less than or equal to 47 dBrnCO. (N)

5. Echo Control (N)

Echo Control, identified as Return Loss, is expressed as Echo Return Loss and Singing Return Loss. It is equal to or greater than the following: (N)

Routing Configuration	Echo Return Loss	Singing Return Loss	
POI to End Office	13 dB	6 dB	(N)

Note 1: For Resold Foreign Exchange Service Type C1 or C2 will be provided as set forth in Technical Reference PUB 62500. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.4 Transmission Specifications (Cont'd) (N)

A21.4.2 Data Transmission Parameters (N)

The Data Transmission Parameters, i.e., Type DB, are provided for Resold Foreign Exchange Service. The specific applications in terms of Resold Foreign Exchange Service with which they are provided are set forth in A21.2.1.C. preceding. Following are descriptions of each. (N)

A. Data Transmission Parameters - Type DB (N)

1. Signal to C-Notched Noise Ratio (N)

   The Signal to C-Notched Noise Ratio is equal to or greater than 30 dB. (N)

2. Envelope Delay Distortion (N)

   The maximum Envelope Delay Distortion for the frequency bands and route miles specified is: (N)

604 to 2804 Hz		(N)
less than 50 route miles	800 microseconds	(N)
equal to or greater than 50 route miles	1000 microseconds	(N)
1004 to 2404 Hz		(N)
less than 50 route miles	320 microseconds	(N)
equal to or greater than 50 route miles	500 microseconds	(N)

3. Impulse Noise Counts (N)

   The Impulse Noise Counts exceeding a 67 dBrnCO threshold in 15 minutes is no more than 15 counts. (N)

4. Intermodulation Distortion (N)

   The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than: (N)

   Second Order (R2) 31 dB (N)

   Third Order (R3) 34 dB (N)

5. Phase Jitter (N)

   The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7 degrees peak-to-peak. (N)

6. Frequency Shift (N)

   The maximum Frequency Shift does not exceed -2 to +2 Hz. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.5 Obligations of the Company

In addition to the obligations of the Company set forth in E2. of the Company's Access Service Tariff, the Company has certain other obligations pertaining only to the provision of Resold Foreign Exchange Service. These obligations are as follows:

A21.5.1 Network Management

The Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Company's network services. Generally, service levels are considered acceptable only when both end users and Resellers are able to establish connections with little or no delay encountered within the Company network. The Company maintains the right to apply protective controls, i.e., those actions, such as call gapping, which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with a Reseller's Resold Foreign Exchange Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Company or Reseller facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Company result in the complete loss of service by the Reseller, the Reseller will be granted a Credit Allowance for Service Interruption as set forth in A2.4.4. preceding.

A21.5.2 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Company through its own service evaluation routines, may also be made available to the Reseller based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and non-completion performance, e.g., Reseller equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other ***guidebook*** sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis. (T)

A21.5.3 Trunk Group Measurements Reports

Subject to availability, the Company will make available trunk group data in the form of usage in CCS, peg count and overflow, to the Reseller based on previously agreed to intervals.

A21.5.4 Determination of Number of Transmission Paths

For Resold Foreign Exchange Service, which is ordered on a per line basis, the Reseller specifies the number of transmission paths in the order for service.

A21.5.5 Determination of Number of End Office Transport Terminations

For analog entry switches, a termination will be provided for each transmission path provided. For digital entry switches, an equivalent termination will be provided for each transmission path provided.

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.6 Obligations of the Reseller

In addition to the obligations of the Reseller set forth in E2. of the Company's Access Service Tariff, the Reseller has certain specific obligations pertaining to the use of Resold Foreign Exchange Service. These obligations are as follows:

A21.6.1 Report Requirements

A. Resellers are responsible for providing the following reports to the Company, when applicable.

1. Code Screening Reports

   When a Reseller orders service class routing, trunk access limitation or call gapping arrangements, it must report the number of trunks and/or appropriate codes to be instituted in each end office for each Resold Foreign Exchange Service ordered.

A21.6.2 Supervisory Signaling

The Reseller's facilities shall provide the necessary on- and off-hook, answer, and disconnect supervision.

A21.6.3 Trunk Group Measurements Report

With the agreement of the Reseller, trunk group data in the form of usage in CCS, peg count and overflow for its end of all trunk groups, where technologically feasible, will be made available to the Company. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

A21.7 Rate *Terms and Conditions* (T)

This section contains the specific ***terms and conditions*** governing the rates and charges that apply for Resold Foreign Exchange Service. (T)

A21.7.1 Description and Application of Rates and Charges

A. There are two types of rates and charges that apply to Resold Foreign Exchange Service. These are usage rates and nonrecurring charges. These rates and charges are applied differently to the various rate elements.

1. Usage Rates

   Usage rates are rates that apply only when a specific rate element is used. These are applied on a per minute of use basis and are accumulated over a monthly period.

2. Nonrecurring Charges

   Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Resold Foreign Exchange Service are:

   a. Installation of Service

      Nonrecurring charges apply to each service installed.

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.7 Rate *Terms and Conditions* (Cont'd) (T)

A21.7.1 Description and Application of Rates and Charges (Cont'd)

A. (Cont'd)

2. Nonrecurring Charges (Cont'd)

b. Service Rearrangements

All changes to existing services other than changes involving administrative activities only will be treated as a discontinuance of the existing service and an installation of a new service. The nonrecurring charge described in a. preceding will apply for this work activity. Moves that change the physical location of the point of termination are described and charged for as set forth in A21.7.5 following.

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

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

A21.7.2 Minimum Periods

Resold Foreign Exchange Service is provided for a minimum period of one month.

A21.7.3 Minimum Monthly Charge

A. Resold Foreign Exchange Service is subject to a minimum monthly charge. The minimum charge applies for the total capacity provided. The minimum monthly charge consists of the following elements:

B. The minimum monthly charge for the Local Switching, Line Termination, and Intercept rate elements is the charge as set forth in A21.8.2 following for the actual or assumed usage for the month.

C. For the Local Transport rate element, the minimum monthly charge is assessed in terms of a Minimum Monthly Usage Charge (MMUC). If the actual Local Transport usage charge for the month is higher than the MMUC, the Reseller pays the actual usage charge. If the Local Transport usage charge is lower than the MMUC, the Reseller pays the MMUC. The MMUC is determined as set forth in A21.7.4. following. Rates for actual usage are set forth in A21.8.1.A. following.

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.7 Rate *Terms and Conditions* (Cont'd) (T)

A21.7.4 Minimum Monthly Usage Charge (MMUC)

A. The Minimum Monthly Usage Charge (the minimum transport charge) varies by mileage band and capacity.

The MMUC is as follows:

Mileage Bands	Minimum Transport Charge per BHMC[1]
0 to 1	$0.4275
Over 1 to 8	$0.9075
Over 8 to 16	$1.0125
Over 16 to 25	$1.0875
Over 25 to 50	$1.7250
Over 50 to 100	$2.4600
Over 100	$3.6825

B. For Resold Foreign Exchange Service, the MMUC will be billed to the Reseller at the line hunt group level or other level of account based on the assumed 30 BHMCs per line.

C. The Minimum Monthly Usage Charge is not applied to Company assumed average minutes of use for Resold Foreign Exchange Service for which measurement capabilities do not exist. In these cases, the Reseller will always be billed for the assumed average minutes of use.

D. For Resold Foreign Exchange Service, the MMUC will be computed using the mileage band in which the airline distance between the first point of switching and the Reseller's serving wire center.

A21.7.5 Moves

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

1. The point of interface at the Reseller's terminal location.
2. The Reseller's terminal location

B. 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.

1. Moves Within the Same Building

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

2. 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 service. The Reseller will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

Note 1: BHMC is the busy hour minutes of capacity provided to the end office. For Resold Foreign Exchange Service, the MMUC is based on an assumed 30 BHMC per line or trunk.

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.7 Rate *Terms and Conditions* (Cont'd) (T)

A21.7.6 Measuring Minutes of Use

A. Reseller traffic to end offices will be measured (i.e., recorded or assumed) by the Company at end office switches. Originating and terminating calls will be measured (i.e., recorded or assumed) by the Company to determine the basis for computing chargeable minutes of use. The measured minutes are the chargeable minutes of use.

B. Resold Foreign Exchange Service Usage Measurement

1. The assumed average access minutes used for usage rated services originating or terminating in end offices where measurement capability is not available are as follows:
   a. When Resold Foreign Exchange Service is provided where neither the originating or terminating minutes are measured, the assumed average minutes of use for each service is 9000.
   b. When originating use only or terminating use only Foreign Exchange Service is provided and minutes cannot be measured, the assumed average minutes of use for each service is 9000.
   c. When Resold Foreign Exchange Service is provided for both originating and terminating use and only one direction can be measured (either originating or terminating), the assumed average minutes of use for the direction which cannot be measured is 4500.
2. For originating calls over Resold Foreign Exchange Service, usage measurement begins when the originating Resold Foreign Exchange Service entry switch receives an off-hook supervisory signal forwarded from the Reseller terminal location.
3. The measurement of originating call usage over Resold Foreign Exchange Service ends when the originating Resold Foreign Exchange Service entry switch receives an on-hook supervisory signal from either the originating end user's end office, indicating the originating end user has disconnected, or the Reseller terminal location, whichever is recognized first by the entry switch.
4. For terminating calls over Resold Foreign Exchange Service, usage measurement begins when the terminating Resold Foreign Exchange Service entry switch receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over Resold Foreign Exchange Service ends when the terminating Resold Foreign Exchange Service entry switch receives an on-hook supervisory signal from either the terminating end user's end office, indicating the terminating end user has disconnected, or the Reseller's terminal location, whichever is recognized first by the entry switch.

A21.7.7 Application of Rates for Resold Foreign Exchange Service Extension Service

Resold Foreign Exchange Service is available with extensions, i.e., additional terminations of the service at different building(s) in the same Local Calling Area. These are provided and charged for under the Company's ***General Exchange Guidebook***. (T)

A21.7.8 Message Unit Credit

Calls from end users to the seven digit local telephone numbers associated with Resold Foreign Exchange Service are subject to ***the*** Company's ***General Exchange Guidebook*** charges (including message unit and toll charges as applicable), as well as any other applicable charges. The monthly bills rendered to Resellers for their Resold Foreign Exchange Service will include a credit to reflect any message unit charges collected from their end users under the Company's ***General Exchange Guidebook***. (T)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.7 Rate *Terms and Conditions* (Cont'd) (T)

A21.7.9 Local Information Delivery Services

Calls over Resold Foreign Exchange Service in the terminating direction to certain community information services will be rated under the applicable rates for Resold Foreign Exchange Service as set forth in A21.8. following. In addition, the charges per call, as specified in the Company's ***General Exchange Guidebook***, e.g., DIAL-IT Network Services, will also apply. (T)

A21.7.10 Mileage Measurement

A. The mileage to be used to determine the monthly rate for the Local Transport is calculated on the airline distance between the end office switch where the call carried by Local Transport originates or terminates and the Reseller's serving wire center. The V&H coordinates method is used to determine mileage. This method is set forth in E10. of the Company's Access Service Tariff. The serving wire center V&H coordinates are also contained in that section.

B. Mileage is shown in A21.8.1 following in terms of mileage bands. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, then find the band into which the computed mileage falls and apply the rate shown for that band. If the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band.

A21.7.11 Shared Use

Shared use occurs when Resold Foreign Exchange Service and Special Access Service is provided over the same analog or digital high capacity facilities through a common interface. This sharing arrangement is available only for existing services. The Special Access portion of the shared facilities will be billed at individual service rates (i.e., Voice Grade, Program Audio or Digital Data). No multiplexing charge will apply.

A21.8 Rates and Charges

A21.8.1 Local Transport

A. Call Miles

1. Usage Rate

		Rate Per Minute Of Use	USOC
(a)	0 to 1	**$.0057**	**NA**
(b)	Over 1 to 8	**.0121**	**NA**
(c)	Over 8 to 16	**.0135**	**NA**
(d)	Over 16 to 25	**.0145**	**NA**
(e)	Over 25 to 50	**.0230**	**NA**
(f)	Over 50 to 100	**.0328**	**NA**
(g)	Over 100	**.0491**	**NA**

B. Installation

1. Nonrecurring Charge

		Rate	USOC
(a)	Per Line	**$462.00**	**NA**

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.8 Rates and Charges (Cont'd) (N)

A21.8.1 Local Transport (Cont'd) (N)

C. Nonchargeable Optional Features (N)

1. Supervisory Signaling (N)
   a. DX Supervisory Signaling arrangement (N)
      Per Transmission Path[1]
   b. SF Supervisory Signaling arrangement (N)
      Per Transmission Path[2]
   c. E&M Type I Supervisory Signaling arrangement (N)
      Per Transmission Path[1]
   d. E&M Type II Supervisory Signaling arrangement (N)
      Per Transmission Path[1]
   e. Tandem Supervisory Signaling arrangement (N)
      Per Transmission Path[3]
2. Reseller specification of the receive transmission level at the first point of switching within a range acceptable to the Company (N)
   - Per Transmission Path[4] (N)

A21.8.2 End Office (N)

A. Local Switching (N)

1. Per Minute of Use (N)

	Rate Per Minute Of Use	USOC
(a) LS1	**$.0064**	**NA** (N)

2. Common Switching Nonchargeable Optional Features (N)
   a. Call denial on line or hunt group, (N)
      Per Transmission Path or Transmission Path Group
   b. Service Code Denial on line or hunt group (N)
      Per Transmission Path or Transmission Path Group
   c. Hunt Group Arrangement (N)
      Per Tranmission Path Group
   d. Uniform Call Distribution Arrangement (N)
      Per Transmission Path Group
   e. Nonhunting Numbers for use with Hunt Group Arrangements or U.C.D. (N)
      Per Transmission Path

Note 1: Available with Interface Groups 1 and 2. (N)

Note 2: Available with Interface Groups 2 and 6 through 10. (N)

Note 3: Available with Interface Group 2. (N)

Note 4: Available with Interface Groups 2 through 10. The range of transmission levels which may be specified is described in Technical Reference PUB 62500. (N)

A21. RESOLD FOREIGN EXCHANGE SERVICE

A21.8 Rates and Charges (Cont'd) (N)

A21.8.2 End Office (Cont'd) (N)

A. Local Switching (Cont'd) (N)

3. Transport Termination Nonchargeable Options (N)

a. Line Side Terminations (N)

(1) Two Way Operation (N)

- Dial Pulse with Loop Start (N)
- Dial Pulse with Ground Start (N)
- DTMF with Loop Start (N)
- DTMF with Ground Start (N)

(2) Terminating Operation (N)

- Dial Pulse with Loop Start (N)
- Dial Pulse with Ground Start (N)
- DTMF with Loop Start (N)
- DTMF with Ground Start (N)

(3) Originating Operation (N)

- Loop Start (N)
- Ground Start (N)

B. Line Terminations (N)

1. Common Line Terminations (N)

	Rate Per Minute Of Use	USOC	
(a) Per Minute of Use	**$.0079**	**NA**	(N)

C. Intercept (N)

1. Intercept Charge (N)

(a) Per Minute of Use	**.000097**	**NA**	(N)

A21.8.3 Carrier Common Line (N)

A. Carrier Common Line (N)

1. Carrier Common Line Charge (N)

(a) Per Minute of Use	**.1286**	**NA**	(N)