

Access Service

C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

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15.1 LOCAL TRANSPORT INTERFACE GROUPS

Interface Group 1 is provided with Type C Transmission Specifications, and Interface Groups 2 through 10 are provided with Type A or B Transmission Specifications, depending on the Feature Group, or type of Wireless Interconnection Service and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Only certain premises interfaces are available at the customer designated premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups. The various premises interfaces which are available with the Interface Groups, and the Feature Groups with which they may be used, are set forth in C15.1 following.

15.1.1 INTERFACE GROUP 1 (USOC TPP1X)

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer's premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Interface Group 1 is not provided in association with FGC, FGD or Wireless Interconnection Service when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC, FGD or Wireless Interconnection Service when the first point of switching provides only four-wire terminations.

The transmission path between the point of termination at the customer designated premises 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 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA or Type 1 Wireless Interconnection Service, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC, FGD or Wireless Interconnection Service, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

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15.1 LOCAL TRANSPORT INTERFACE GROUPS

15.1.2 INTERFACE GROUP 2 (USOC TPP2X)

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The transmission path between the point of termination at the customer designated premises 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 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA or Type 1 Wireless Interconnection Service, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC, FGC or Wireless Interconnection Service, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

15.1.3 INTERFACE GROUP 3 (USOC TPP3X)

Interface Group 3 provides group level analog transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals between the frequencies of 60 to 108 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 Utility use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Utility will provide multiplex equipment to derive 12 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

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

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15.1 LOCAL TRANSPORT INTERFACE GROUPS (Cont'd)

(T)

15.1.4 INTERFACE GROUP 4 (USOC TPP4X)

Interface Group 4 provides supergroup level analog transmission at the point of termination at the customer designated premises. 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 Utility use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Utility will provide multiplex and channel bank equipment to derive 60 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

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

15.1.5 INTERFACE GROUP 5 (USOC TPP5X)

Interface Group 5 provides mastergroup level analog transmission at the point of termination at the customer designated premises. 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 Utility use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Utility will provide multiplex and channel bank equipment to derive 600 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

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

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15.1 LOCAL TRANSPORT INTERFACE GROUPS (Cont'd)

(T)

15.1.6 INTERFACE GROUP 6 (USOC TPP6X)

Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer designated premises. 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 Utility will provide multiplex and channel bank equipment to derive 24 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 Utility will provide, at the first point of switching, a DS1 signal in D3/D4 format. The interface is provided with individual transmission path bit stream supervisory signaling.

(A) (USOC SLKS7)

Interface Group 6, used in conjunction with SS7, provides interconnection for common channel signaling access capability.

15.1.7 INTERFACE GROUP 7 (USOC TPP7X)

Interface Group 7 provides DS1C level digital transmission at the point of termination at the customer designated premises. 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 Utility 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 Utility will provide, at the first point of switching, DS1 signal in D3/D4 format.

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

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15.1 LOCAL TRANSPORT INTERFACE GROUPS

15.1.8 INTERFACE GROUP 8 (USOC TPP8X)

Interface Group 8 provides DS2 level digital transmission at the point of termination at the customer designated premises. 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 Utility will provide multiplex and channel bank equipment in its office 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 Utility will provide, at the first point of switching, DS1 signal in D3/D4 format.

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

15.1.9 INTERFACE GROUP 9 (USOC TPP9X)

Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer designated premises. 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 Utility will provide multiplex and channel bank equipment to derive up to 672 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 Utility will provide, at the first point of switching, DS1 signal in D3/D4 format.

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

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15.1 LOCAL TRANSPORT INTERFACE GROUPS

15.1.8 INTERFACE GROUP 10 (USOC TPPAX)

Interface Group 10 provides DS4 level digital transmission at the point of termination at the customer designated premises. 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 Utility will provide multiplex and channel bank equipment to derive up to 4032 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 Utility will provide, at the first point of switching, DS1 signal in D3/D4 format. The interface is provided with individual transmission path bit stream supervisory signaling.

15.1.11 AVAILABLE PREMISES INTERFACE CODES

Following is a matrix showing, for each Interface Group, which premises interface codes are available as a function of the Utility switch supervisory signaling and Feature Group. For explanations of these codes, see the Glossary of Channel Interface Codes in C15.3.1 following.

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15.1 LOCAL TRANSPORT INTERFACE GROUPS (Cont'd)

15.1.8 AVAILABLE PREMISES INTERFACE CODES (Cont'd)

Interface Group	Utility Switch Supervisory Signaling Interconnection	Premises Interface Code	Feature Group				Wireless	
			A	B	C	D		
1	LO	2LS2	X				X	
	LO	2LS3	X				X	
	GO	2GS2	X				X	
	GO	2GS3	X				X	
	LO , GO	2DX3	X				X	
	LO , GO	4EA3-E	X					
	LO , GO	4EA3-M	X					
	LO , GO	6EB3-E	X					
	LO , GO	6EB3-M	X					
	RV , EA, EB, EC	2DX3		X	X	X	X	
	RV , EA, EB, EC	4EA3-E		X	X	X		
	RV , EA, EB, EC	4EA3-M		X	X	X		
	RV , EA, EB, EC	6EB3-E		X	X	X		
	RV , EA, EB, EC	6EB3-M		X	X	X		
	EA , EB, EC	6EC3			X	X		
	RV	2RV3-0		X	X	X	X	
	RV	2RV3-T		X	X	X	X	
	2	LO , GO	4SF2	X				
		LO , GO	4SF3	X				
		LO	4LS2	X				
LO		4LS3	X					
LO		6LS2	X					
GO		4GS2	X					
GO		4GS3	X					
GO		6GS2	X					
LO , GO		4DX2	X					
LO , GO		4DX3	X					
LO , GO		6EA2-E	X					
LO , GO		6EA2-M	X					
LO , GO		8EB2-E	X					
LO , GO		8EB2-M	V					
LO , GO		6EX2-B	X					

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.1 LOCAL TRANSPORT INTERFACE GROUPS (Cont'd)

15.1.8 AVAILABLE PREMISES INTERFACE CODES (Cont'd)

Interface Group	Utility Switch Supervisory Signaling	Premises Interface Code	Feature Group				Wireless Interconnection
			A	B	C	D	
2 (Cont'd)	RV , EA, EB, EC	4SF2	X	X	X		X
	RV , EA, EB, EC	4SF3	X				
	RV , EA, EB, EC	4DX2	X	X	X		X
	RV , EA, EB, EC	4DX3	X				
	RV , EA, EB, EC	6DX2	X				
	RV , EA, EB, EC	6EA2-E	X	X	X		X
	RV , EA, EB, EC	6EA2-M	X	X	X		X
	RV , EA, EB, EC	8EB2-E	X	X	X		X
	RV , EA, EB, EC	8EB2-M	X	X	X		X
	EA , EB, EC	8EC2-M	X	X	X		X
	RV	4RV2-0			X	X	X
	RV	4RV2-T		X	X	X	X
	RV	4RV3-0		X	X		
	RV	4RV3-T		X	X		
3	LO , GO	4AH5-B	X				
	RV , EA, EB, EC	4AH5-B		X	X	X	
4	LO , GO	4AH6-C	X				
	RV , EA, EB, EC	4AH6-C		X	X	X	
5	LO , GO	4AH6-D	X				
	RV , EA, EB, EC	4AH6-D		X	X	X	
6	LO , GO	4DS9-15	X				X
	LO , GO	4DS9-15L	X				
	RV , EA, EB, EC	4DS9-15		X	X	X	X
	RV , EA, EB, EC	4DS9-15L		X	X	X	
7	LO , GO	4DS9-31	X				
	RV , EA, EB, EC	4DS9-31		X	X	X	
	LO , GO	4DS9-31LX					
	RV , EA, EB, EC	4DS9-31L		X	X	X	

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15.1 LOCAL TRANSPORT INTERFACE GROUPS

(Cont'd) 15.1.11 AVAILABLE PREMISES

INTERFACE CODES (Cont'd)

Interface Group	Utility Switch Supervisory Signaling	Premises Interface Code	Feature Group				Wireless Interconnection
			A	B	C	D	
8	LO , GO	4DS0-63	X				
	LO , GO	4DS0-63L	X				
	RV , EA, EB, EC	4DS0-63		X	X	X	
	RV , EA, EB, EC	4DS0-63L		X	X	X	
9	LO , GO	4DS6-44	X				
	LO , GO	4DS6-44L	X				
	RV , EA, EB, EC	4DS6-44		X	X	X	
	RV , EA, EB, EC	4DS6-44L		X	X	X	
10	LO , GO	4DS6-27	X				
	LO , GO	4DS6-27L	X				
	RV , EA, EB, EC	4DS6-27		X	X	X	
	RV , EA, EB, EC	4DS6-27L		X	X	X	

15.1.12 SUPERVISORY SIGNALING

For Interface Groups 1 and 2

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

For Interface Group 2

SF Supervisory Signaling, or
Tandem Supervisory Signaling

For Interface Groups 6 and 10

These Interface Groups may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in Utility central offices. Generally such signaling is available only where the entry switch provides an analog, i.e., nondigital, interface to the transport termination.

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.2 TRANSMISSION SPECIFICATIONS SWITCHED ACCESS SERVICE

15.2.1 STANDARD TRANSMISSION SPECIFICATIONS

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Service Feature Groups. The specific applications in terms of the Feature Groups and Interface Groups with which the Feature Group Standard Transmission Specifications are provided as set forth in C6.2.1.C, C6.2.2.C, C6.2.3.C and C6.2.4.C preceding.

A. TYPE A TRANSMISSION SPECIFICATIONS

Type A Transmission Specifications are provided with the following parameters:

1. Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is + 2.0 dB

2. Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to + 3.0 dB.

3. C-Message Noise

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

Route Miles	C-Message Noise
less than 50	32 dBrnCO
51 to 100	34 dBrnCO
101 to 200	37 dBrnCO
201 to 400	40 dBrnCO
401 to 1000	42 dBrnCO

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.2 TRANSMISSION SPECIFICATIONS SWITCHED ACCESS SERVICE (Cont'd)

15.2.1 STANDARD TRANSMISSION SPECIFICATIONS (Cont'd)

A. TYPE A TRANSMISSION SPECIFICATIONS (Cont'd)

4. C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone, is less than or equal to 45 dBraCO.

5. Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	21 dB	14 dB
POT to End Office		
Direct	N/A	N/A
Via Access Tandem	16 dB	11 dB

6. Standard Return Loss

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

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.2 TRANSMISSION SPECIFICATIONS SWITCHED ACCESS SERVICE (Cont'd)

15.2.1 STANDARD TRANSMISSION SPECIFICATIONS (Cont'd)

B. TYPE B TRANSMISSION SPECIFICATIONS

Type B Transmission Specifications are provided with the following parameters:

1. Loss Deviation

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

2. Attenuation Distortion

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.

3. C-Message Noise

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

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

4. C-Notch Noise

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

NOTE 1: For Feature Groups C and D only Type B2 will be provided. For Feature groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference TR-NPL-000334.

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.2 TRANSMISSION SPECIFICATIONS SWITCHED ACCESS SERVICE (Cont'd)

15.2.1 STANDARD TRANSMISSION SPECIFICATIONS (Cont'd)

B. TYPE B TRANSMISSION SPECIFICATIONS (Cont'd)

5. Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's Point of Termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

	Echo Return Loss	Singing Return Loss	
POT to Access Tandem			
Terminated in			
4-Wire trunk	21 dB	14 dB	
Terminated in			
2-Wire trunk	16 dB	11 dB	
POT to End Office			
Direct	16 dB	11 dB	
Via Access Tandem			
For FGB access	8 dB	4 dB	
For FGC access	16 dB	11 dB	
(Effective 4-Wire transmission path at end office)			(T)
For FGC access	13 dB	6 dB	
(Effective 2-Wire transmission path at end office)			(T)

6. Standard Return Loss

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:

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

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.2 TRANSMISSION SPECIFICATIONS SWITCHED ACCESS SERVICE (Cont'd)

15.2.1 STANDARD TRANSMISSION SPECIFICATIONS (Cont'd)

C. TYPE C TRANSMISSION SPECIFICATIONS

(L1)

Type C Transmission Specifications is provided with the following parameters:

1. Loss Deviation

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

2. Attenuation Distortion

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.

3. C-Message Noise

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

(L2)

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

4. C-Notch Noise

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

NOTE 1: For Feature Groups C and D only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference PUB 62500.

(L2)

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15.2 TRANSMISSION SPECIFICATIONS SWITCHED ACCESS SERVICE (Cont'd)

15.2.1 STANDARD TRANSMISSION SPECIFICATIONS (Cont'd)

C. TYPE C TRANSMISSION SPECIFICATIONS (Cont'd)

(L1)

5. Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's Point of Termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	13 dB	6 dB
POT to End Office		
Direct	13 dB	6 dB
Via Access Tandem	8 dB	4 dB
(for FGB only)		

(L1)

15.2.2 DATA TRANSMISSION PARAMETERS

(L2)

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Feature Group arrangements. The specific applications in terms of the Feature Groups with which they are provided are set forth in C6.2.1.C, C6.2.2.C, C6.2.3.C, and C6.2.4.C. preceding. Following are descriptions of each.

A. DATA TRANSMISSION PARAMETERS TYPE DA

1. Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(L2)

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(N)

(L2) Material now appearing on this page previously appeared on Page 16.

(N)

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15.2 TRANSMISSION SPECIFICATIONS SWITCHED ACCESS SERVICE

15.2.2 DATA TRANSMISSION PARAMETERS (Cont'd)

(T)

(L1)

2. Envelope Delay Distortion

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

604 to 2804 Hz		
less than 50 route miles		500 microseconds
equal to or greater than 50 route miles		900 microseconds
1004 to 2404 Hz		
less than 50 route miles		200 microseconds
equal to or greater than 50 route miles		400 microseconds

3. Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnC0 threshold in 15 minutes is no more than 15 counts.

4. Intermodulation Distortion

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

Second Order (R2)	33 dB
Third Order (R3)	37 dB

5. Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5° peak-to-peak.

(L2)

6. Frequency Shift

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

(L2)

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(L2) Material now appearing on this page previously appeared on Page 17. (N)

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15.2 TRANSMISSION SPECIFICATIONS SWITCHED ACCESS SERVICE (Cont'd)

15.2.2 DATA TRANSMISSION PARAMETERS (Cont'd)

(L1)

B. DATA TRANSMISSION PARAMETERS TYPE DB

1. Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

2. Envelope Delay Distortion

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

604 to 2804 Hz	
less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds

1004 to 2404 Hz	
less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

3. Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

4. Intermodulation Distortion

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

Second Order (R2)	31 dB
Third Order (R3)	34 dB

5. Phase Jitter

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

6. Frequency Shift

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

(L2)

(L2)

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(L2) Material now appearing on this page previously appeared on Page 18. (N)

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

(L1)

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES

(L2)

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access Service. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

15.3.1 GLOSSARY OF CHANNEL INTERFACE CODES AND OPTIONS

Code Option	Definition
AB -	accepts 20 Hz ringing signal at customer's point of termination
AC -	accepts 20 Hz ringing signal at customer's end user's point of termination
AH -	analog high capacity interface
- B	60 Khz to 108 Khz (12 channels)
- C	312 Khz to 552 Khz (60 channels)
- D	564 Khz to 3084 Khz (600 channels)
CT -	Centrex Tie Trunk Termination
DA -	data stream in VF frequency band at customer's end user's point of termination
DB -	data stream in VF frequency band at customer's point of termination
DD -	DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE -	DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination
DS -	digital hierarchy interface
- 15	1.544 Mbps (DS1) format per PUB 41451 plus D4
- 15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
- 15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
- 15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
- 15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
- 15J	1.544 Mbps format per PUB 41451
- 15K	1.544 Mbps format per PUB 41451 plus extended framing format
- 15L	1.544 Mbps (DS1) with SF signaling
- 27	274.176 Mbps (DS4)
- 27L	274.176 Mbps (DS4) with SF signaling
- 31	3.152 Mbps (DS1C)
- 31L	3.152 Mbps (DS1C) with SF signaling
- 44	44.736 Mbps (DS3)
- 44L	44.736 Mbps (DS3) with SF signaling
- 63	6.312 Mbps (DS2)
- 63L	6.312 Mbps (DS2) with SF signaling

(L2)

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ACCESS SERVICE

C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES
(Cont'd)

(L1)

15.3.1 GLOSSARY OF CHANNEL INTERFACE CODES AND OPTIONS (Cont'd)

(T)

Code Option Definition

DU -	digital access interface	(L2)
- 24	2.4 kbps	
- 48	4.8 kbps	
- 56	56.0 kbps	
- 56A	64.0 kbps	
- 96	9.6 kbps	
- A	1.544 Mbps format per PUB 41451	
- B	1.544 Mbps format per PUB 41451 plus D4	
- C	1.544 Mbps format per PUB 41451 plus extended framing format	
DX -	duplex signaling interface at customer's point of termination	
DY -	duplex signaling interface at customer's end user's point of termination	
EA - E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.	
EA - M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.	
EB - E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.	
EB - M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.	
EC -	Type III E&M signaling at customer POT	
EX - A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.	
EX - B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.	
GO -	ground start loop signaling - open end function by customer or customer's end user	
GS -	ground start loop signaling - closed end function by customer or customer's end user	(L2)

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

15.3.1 GLOSSARY OF CHANNEL INTERFACE CODES AND OPTIONS (Cont'd)

Code Option	Definition	(L1)
LA -	end user loop start loop signaling - Type A OPS registered port open end	(L2)
LB -	end user loop start loop signaling - Type B OPS registered port open end	
LC -	end user loop start loop signaling - Type C OPS registered port open end	
LO -	loop start loop signaling - open end function by customer or customer's end user	
LR -	20 Hz automatic ringdown interface at customer with Utility provided PLAR	
LS -	loop start loop signaling - closed end function by customer or customer's end user	
NO -	no signaling interface, transmission only	
- 1	nominal frequency from 50 to 15000 Hz	
- 3	nominal frequency from 200 to 3500 Hz	
- 5	nominal frequency from 100 to 5000 Hz	
- 8	nominal frequency from 50 to 8000 Hz	
PR -	protective relaying ¹	
RV - 0	reverse battery signaling, one way operation, originate by customer	
- T	reverse battery signaling, one way operation, terminate function by customer or customer's end user	
SF -	single frequency signaling with VF band at either customer POT or customer's end user POT	(L2)
TF -	telephotograph interface	
TV -	television interface	(L3)
- 1	combined (diplexed) video and one audio signal	
- 2	combined (diplexed) video and two audio signals	
- 5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire	
- 15	video plus one (or two) audio 15 kHz signal(s)	(L3)

NOTE 1: Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions. (L2)
(L2)

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

(L1)

15.3.2 IMPEDANCE

(L2)

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

Value (ohms)	Codes (s)
110	0
150	1
600	2
900	3 ¹
135	5
75	6
124	7
Variable	8
100	9

(L2)

15.3.3 DIGITAL HIERARCHY CHANNEL INTERFACE CODES (4DS)

(L3)

Customers selecting the multiplexed four-wire DSX-1 or higher facility interface option at the customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS0 or 4DS6 plus the speed options indicated below:

Interface Code and Speed Option	Nominal Bit Rate (Mbps)	Digital Hierarchy Level
4DS8-15	1.544	DS1
4DS8-31	3.152	DS1C
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

(L3)

NOTE 1: For those interface codes with a 4-wire transmission path at the customer designated POT, rather than a standard 900 ohm impedance, the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

(L1)

15.3.4 SERVICE DESIGNATOR/NETWORK CHANNEL CODE CONVERSION TABLE

(L2)

The purpose of this table is to show the relationship between the service designator codes (e.g. VGC, MT2, etc.) and the network channel codes that are used for:

Service Designator Code	Network Channel Code
VGC	LQ
VGW	SE
VG1	LB
VG2	LC
VG3	LD
VG4	LE
VG5	LF
VG6	LG
VG7	LH
VG8	LJ
VG9	LK
VG10	LM
VG11	LP
VG12	LR
APC	PQ
API	PE
AP2	PF
AP3	PJ
AP4	PK
TVC	TQ
TV1	TV
TV2	TW
DA1	XA
DA2	XB
DA3	XG
DA4	XH
HCO	HS
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

(L1)

15.3.5 COMPATIBLE CHANNEL INTERFACES

(L2)

The following tables show the channel interface codes (CIs) which are compatible:

C. VOICE GRADE

Compatible CIs		Compatible CIs		Compatible CIs	
2AB2	2AC2	2DB2	2DA2	2LR2	2LR2
2AB3	2AC2	2DB3	2DA2	2LR3	2LR2
2CT3	2DY2	2DX3	2LA2	2LS	2GS
	4DS8 ¹		2LB2		2LS
	4DX2		2LC2		4GS
	4DX3		2L03		4LS
	4DY2		2LS2		
	4EA2-E		2LS3	2LS2	2LA2
	4EA2-M				2LB2
	4SF2	2G02	2GS2		2LC2
	4SF3		2GS3		
	6DX2			2LS3	2LA2
	6DY2	2G03	2GS2		2LB2
	6DY3		2GS3		2LC2
	6EA2-E				
	6EA2-M	2GS	2GS	2NO2	2DA2
	6EB2-E		2LS		2NO2
	6EB2-M		4GS		
	6EB3-E		4LS	2NO3	2NO2
	8EB2-E				2PR2
	8EB2-M	2L02	2LS2		
	8EC2		2LS3	2TF3	2TF2
	9DY2				
	9DY3	2L03	2LS2		
	9EA2		2LS3		
	9EA3				

NOTE 1: See 15.3.3 preceding for explanation.

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

(L1)

15.3.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

(L2)

C. VOICE GRADE (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4AB2	2AC2	4DS8 ¹	2AC2	4DS8 ¹	4DG2
	4AB2		2DA2		4LR2
	4AC2		2DY2		4LS2
	4SF2		2G02		4N02
			2G03		4PR2
4AB3	2AC2		2GS2		4RV2-T
	4AC2		2GS3		4SF2
	4AC2		2LA2		4SF3
			2LB2		4TF2
4AC2	2AC2		2LC2		6DA2
	4AC2		2LO2		6DY2
			2L03		6DY3
4DA2	4DA2		2LR2		6EA2-E
			2LS2		6EA2-M
4DB2	2DA2		2LS3		6EB2-E
	2N02		2N02		6EB2-M
	2PR2		2PR2		6GS-2
	4DA2		2RV2-T		6LS2
	4DB2		2TF2		8EB2-E
	4N02		4AC2		8EB2-M
	4PR2		4DA2		9DY2
	6DA2		4DE2		9DY3
4DD3	2DE2		4DX2		9EA2
	4DE2		4DX3		9EA3
			4DY2		
			4EA2-E		
			4EA2-M		

NOTE 1: See 15.3.3 preceding for explanation.

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

(L1)

15.3.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

(L2)

C. VOICE GRADE (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4DX2	2DY2	4DX2	8EB2-E	4DX3	6DY2
	2LA2		8EB2-M		6DY3
	2LB2		9DY2		6EA2-E
	2LC2		9DY3		6EA2-M
	2L03		9EA2		6EB2-E
	2LS2		9EA3		6EB2-M
	2LS3				6LS2
	2RV2-T	4DX3	2DY2		8EB2-E
	2RX2		2LA2		8EB2-M
	4DY2		2LB2		9DY2
	4DA2-E		2LC2		9DY3
	4EA2-M		2L03		9EA2
	4LS2		2LS2		9EA3
	4RV2-T		2LS3		
	4SF2	2RV2-T	4DY2		2DY2
	4SF3		4DX2		4DY2
	6DY2		4DX3		
	6DY3		4DY2		
	6EA2-E		4EA2-E		
	6EA2-M		4EA2-M		
	6EB2-E		4LS2		
	6EB2-M		4RV2-T		
	6LS24		SF2		
	4SF3				

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15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

(L1)

15.3.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

(L2)

C. VOICE GRADE (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4EA2-E	2DY2	4EA3-E	2DY2	4G02	2G02
	4DY2		4DY2		2G03
	4EA2-E		4EA2-E		2GS2
	4EA2-M		4EA2-M		2GS3
	4SF2		4SF2		4GS2
	6DY2		6DY2		4SF2
	6DY3		6DY3		6GS2
	6EB2-E		6EA2-E		
	6EB2-M		6EA2-M	4G03	2G02
	8EB2-E		6EB2-E		2GS2
	8EB2-M		6EB2-M		2GS3
	9DY2		8EB2-E		4GS2
	9DY3		8EB2-M		4SF2
			9DY2		6GS2
			9DY3		
4EA2-M	2DY2		9EA2		
	4DY2		9EA3	4GS	2GS
	4EA2-M				2LS
	4SF2				4GS
	6DY2				4LS
	6DY3				
	6EB2-E				
	6EB2-M				
	8EB2-E				
	8EB2-M				
	9DY2				
	9DY3				

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

(L1)

15.3.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

(L2)

C. VOICE GRADE (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4L02	2LS2	4LS3	2LA2	4SF2	2L03
	2LS3		2LB2		2LR2
	4LS2		2LC2		2LS2
	4SF2		2L02		2LS3
	6LS2		2L03		2RV2-T
			4SF2		4AC2
4L03	2LS2				4DY2
	2LS3	4N02	2DA2		4LS2
	4LS2		2DE2		2RV2-T
	4SF2		2N02		4SF2
	6LS2		4DA2		6DY2
			4DE2		6DY3
4LR2	2LR2		4N02		6GS2
	4LR2		6DA2		9DY2
	4SF2				9DY3
		4RV2-0	2RV2-T		
4LR3	2LR2		4RV2-T	4SF3	2DY2
	4LR2		4SF2		2G03
	4SF2				2GS2
		4SF2	2AC2		2GS3
4LS	2GS		2DY2		2LA2
	2LS		2GS2		2LB2
	2GS		2GS3		2LC2
	2LS		2LA2		2L03
			2LB2		2LR2
			2LC2		
4LS2	2LA2				
	2LB2				
	2LC2				
	2L02				
	2L03				

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

15.3.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

C. VOICE GRADE (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4SF3	2LS2	6DA	4DA2	6DY3	2DY2
	2LS3		6DA2		4DY2
	2RV2-T				6DY2
	4DY2	6DX2	2DY2		6DY3
	4EA2-E		4DY2		
	4EA2-M		4EA2-E	6EA2-E	2AC2
	4GS2				
	4LR2		4EA2-M		2DY2
	4LS2		4SF2		2LA2
	4RV2-T		6DY2		2LB2
	4SF2		6DY3		2LC2
	4SF3		6EA2-E		2L03
	6DY2		6EA2-M		2LS2
	6DY3		6EB2-E		2LS3
	6EB2-E		6EB2-M		2RV2-T
	6EB2-M		8EB2-E		4AC2
	6GS2		8EB2-M		4DY2
	6LS2		9DY2		4EA2-E
	9DY2		9DY3		4EA2-M
	9DY3		9EA2		4LS2
	9EA2		9EA3		4RV2-T
	9EA3				4SF2
					4SF3
4TF2	2TF2	6DY2	2DY2		6DY2
	4TF2		4DY2		6DY3
			6DY2		6EA2-E
					6EA2-M

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

15.3.5 COMPATIBLE CHANNEL INTERFACES

C. VOICE GRADE (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
6EA2-E	6EB2-E	6EA2-M	6DY2	6EB3-2	2DY2
	6EB2-M		6DY3		4DY2
	6LS2		6EA2-M		4EA2-E
	8EB2-E		6EB2-E		4EA2-M
	8EB2-M		6EB2-M		4SF2
	9DY2		6LS2		6DY2
	9DY3		8EB2-E		6DY3
			8EB2-M		6EA2-E
6EA2-M	2AC2		9DY2		6EA2-M
	2DY2		9DY3		8EB2-E
	2LA2				8EB2-M
	2LB2	6EB2-E	2DY2		9DY2
	2LC2		4DY2		9DY3
	2L03		4SF2		9EA2
	2LS2		6DY2		9EA3
	2LS3		6DY3		
	2RV2-T		6EB2-E	6EX2-A	2GS2
	4AC2		6EB2-M		2GS3
	4DY2		9DY2		2LS2
	4EA2-E		9DY3		2LS3
	4EA2-M				4GS2
	4LS2	6EB2-M	2DY2		4LS2
	4RV2-T		4DY2		4SF2
	4SF2		4SF2		6GS2
	4SF3		6DY2		6LS2
			6DY3		
			6EB2-M		
			9DY2		
			9DY3		

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

15.3.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

C. VOICE GRADE (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs		(L1)
Compatible CIs		Compatible CIs		Compatible CIs		(L2)
6EX2-B	2G03	8EB2-E	2AC2	8EB2-M	2AC2	
	2LA2		2DY2		2DY2	
	2LB2		2LA2		2LA2	
	2LC2		2LB2		2LB2	
	2L02		2LC2		2LC2	
	2L03		2L03		2L03	
	2LR2		2LS2		2LS2	
	4LR2		2LS3		2LS3	
	4SF2		2RV2-T		2RV2-T	
			4AC2		4AC2	
6G02	2G02		4DY2		4DY2	
	2GS2		4LS2		4LS2	
	2GS3		4RV2-T		4RV2-T	
	4GS2		4SF2		4SF2	
	4SF2		4SF3		4SF3	
	6GS2		6DY2		6DY2	
			6DY3		6DY3	
6L02	2LS2		6EB2-E		6EB2-E	
	2LS3		6EB2-M		6EB2-M	
	4LS2		6LS2		6LS2	
	4SF2		8EB2-E		8EB2-M	
	6LS2		8EB2-M		9DY2	
			9DY2		9DY3	
6LS2	2LA2		9DY3			
	2LB2					
	2LC2					
	2L02					
	2L03					
	4SF2					

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C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

15.3.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

C. VOICE GRADE (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		(L1)
8EC2	2DY2	9DY2	2DY2	9EA3	2DY2	(L2)
	4DY2		4DY2		4DY2	
	4EA2-E		6DY2		4EA2-E	
	4EA2-M		6DY3		4EA2-M	
	4SF2		9DY2		6DY2	
	6DY2				6DY3	
	6DY3	9DY3	2DY2		6EA2-E	
	6EA2-E		4DY2		6EA2-M	
	6EA2-M		6DY2		6EB2-E	
	6EB2-E		6DY3		6EB2-M	
	6EB2-M		9DY2		8EB2-E	
	8EB2-E		9DY3		8EB2-M	
	8EB2-M				9DY2	
	9DY2	9EA2	2DY2		9DY3	
	9DY3		4DY2		9EA3	
	9EA2		4EA2-E			
	9EA3		4EA2-M			
			6DY2			
			6DY3			
			6EA2-E			
			6EA2-M			
			6EB2-E			
			6EB2-M			
			8EB2-E			
			8EB2-M			
			9DY2			
			9DY3			
			9EA2			
			9EA3			

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(L2) Material now appearing on this page previously appeared on Page 37. (N)

ACCESS SERVICE

C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

15.3.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

							(L1)
D.	PROGRAM AUDIO						(L2)
	Compatible CIs		Compatible CIs				
	2PG2-1	2PG1-1 2PG2-1	4DS8-15E	2PG1-3 2PG2-3			
	2PG2-3	2PG1-3 2PG2-3	4DS8-15F	2PG1-5 2PG2-5			
	2PG2-5	2PG1-5 2PG2-5	4DS8-15G	2PG1-8 2PG2-8			
	2PG2-8	2PG1-8 2PG2-8	4DS8-15H	2PG1-1 2PG2-1			(L2)
E.	VIDEO						(L3)
	Compatible CIs		Compatible CIs		Compatible CIs		
	2TV6-1	4TV6-15 4TV7-15	4TV6-5	4TV6-5 4TV7-5	6TV6-5	6TV6-5 6TV7-5	
	2TV6-2	6TV6-15 6TV7-15	4TV6-15	4TV6-15 4TV7-15	6TV6-15	6TV6-15 6TV7-15	
	2TV7-1	4TV6-15 4TV7-15	4TV7-5	4TV6-5 4TV7-5	6TV7-5	6TV7-5 6TV6-5	
	2TV7-2	6TV6-15 6TV7-15	4TV7-15	4TV6-15 4TV7-15	6TV7-15	6TV6-15 6TV7-15	(L3)

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(L2) Material now appearing on this page previously appeared on Page 38. |
(L3) Material now appearing on this page previously appeared on Page 39. (N)

ACCESS SERVICE

C15-A. INTERFACE GROUPS, TRANSMISSION SPECIFICATIONS AND CHANNEL INTERFACES

15.3 SPECIAL ACCESS CHANNEL INTERFACE AND NETWORK CHANNEL CODES (Cont'd)

15.3.5 COMPATIBLE CHANNEL INTERFACES (Cont'd)

(L1)

F. DIGITAL DATA

(L2)

Compatible CIs		Compatible CIs		Compatible CIs	
4DS8-15	4DS8-151	4DU5-24	4DU5-24	4DU8-56	4DU5-56
	4DU5-24				
	4DU5-48	6DU5-48	6DU5-48	6DU5-24	6DU5-24
	4DU5-56				
	4DU5-96	4DU5-96	4DU5-96	6DU5-48	6DU5-48
	6DU5-24				
	6DU5-48			6DU5-56	6DU5-56
	6DU5-96				
				6DU5-96	6DU5-96

G. HIGH CAPACITY

Compatible CIs		Compatible CIs	
4DS0-63	4DS0-63	4DS8-15J	4DU8-A
	4DU8-A,B or C		6DU8-A
	6DU8-A,B or C		
4DS6-27	4DS6-27	4DS8-15K	4DU8-B
	4DU8-A,B or C		4DU8-C
	6DU8-A,B or C		6DU8-B
			6DU8-C
4DS6-44	4DS6-44	4DS8-31	4DS8-31
	4DU8-A,B or C		4DU8-A,B or C
	6DU8-A,B or C		6DU8-A,B or C
4DS8-15	4DS8-15 ¹	4DU8-A,B or C	4DU8-A,B or C
	4DU8-B		
	6DU8-8		

NOTE 1: Available only as a cross connect of two individual channels of 1.544 Mbps facilities at a Utility hub.

(L2)

Pages 34 through 40 are no longer in use and hereby withdrawn from this publication.

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(L1) Material previously appearing on this page now appears on Page 27.

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(L2) Material now appearing on this page previously appeared on Page 40.

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Access Service

C16-A. OPERATING TERRITORY OF THE UTILITY

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C16-A. OPERATING TERRITORY OF THE UTILITY

16.1 RATE CENTERS

The operating territory of the Utility is comprised of the following locations, defined by the names of rates centers, for the state of Nevada.

<u>RATE CENTER</u>	<u>LATA</u>	<u>RATE CENTER</u>	<u>LATA</u>
Adobe Hill	720 (T)	Fallon	720 (L1)
Alamo	720	Fergusons Station	720
Argenta	720	Fernley	720
Atlas Precious Metals	720	Fish Lake Valley	720
Austin	720	FMC - Paradise Peak	720
Baker	720	Frenchmans Station	720
Battle Mountain	720	Gabbs	720
Battle Mountain		Gardnerville	720
Low Frequency		Glenbrook	720
Range Station	720	Glendale	721
Battle Mountain		Gold Creek	720
Vortax Site	720	Goldfield	720
Bear Mountain	720	Gold Mountain	720
Beatty	721	Grayson Ranch	720
Beatty Airport	721	Hawthorne	720
Black Mountain	720	Henderson	721
Blair Junction	720	Hot Creek Valley	721
Blue Diamond	721	Imlay	720
Boulder City	721	Independence Range	720
Boyer Ranch	720	Indian Springs	721
Caliente	720	Jackpot	652
Candelaria	720	Jean	721
Carlin	720	Kimberly	720
Carson City	720	Lages Station	720
Carson Plains	720	Lake Mead	721
Carson Sink	720	Lake Valley	720
Charleston	720	Lamoille	720
Churchill Butte	720	Las Vegas	721
Clover Creek	720	Lathrop Wells	721
Cobre	720	Laughlin	721
Coeur D'Alene Mines	720	Lee-Jiggs	720
Cold Springs	720	Logandale	721
Columbus	720	Lovelock	720
Copper Canyon	721	Luck Day Mine	720
Cottonwood Creek	720	Lund	720
Crescent Valley		Mack Creek	720
Toll Region	720	Maggie Creek	720
Crystal Bay	720	Manhattan	720
Current Toll Region	720	Mc Clellan Peak	720
Denio Toll Region	720	Mc Clusky Peak	720
Desert Valley Toll		Mc Cullough Range	720
Region	720	Mc Dermitt	720
Diamond Valley		Mc Gill	720
Toll Region	720	Mesquite	660
Dolly Varden	720 (T)	Middle Gate	720
Eagle Ridge	720 (L1)	Mina	720
Eldorado	721	Mina Aftac	
Eklo	720	Seismic Station	720 (L1)
Ely	720	Montello	721 (L2)
Empire	720	Montezuma	720
Eureka	720 (L1)	Mountain City	652 (L2)

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(L2) Material now appearing on this page previously appeared on Page 3.

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C16-A. OPERATING TERRITORY OF THE UTILITY

16.1 RATE CENTERS (Cont'd)

<u>RATE CENTER</u>	<u>LATA</u>	<u>RATE CENTER</u>	<u>LATA</u>
Mount Charleston	721 (L2)	Sand Springs	720 (L3)
Mount Davidson	720	Sandy Valley	721
Mount Lewis	720	Sawmill Canyon	720
Mount Moses	720	Schurz	720
Mount Potosi	720	Searchlight	721
Nelson	721	Silver Peak	720
Nevada Test Site	721	Silver Springs	720
NTS Toll Region 8	721	Smith Valley	720
Nixon	720	Soda Springs	720
North Fork	720	Spring Valley Toll	
Oasis	720	Region	720
Orovada	720	Squaw Mountain	720
Osgood Toll Region	720	Stateline (Douglas Co.)	720
Overton	721	Summit Springs	720
Owyhee	652	Sutcliffe	720
Pahrump	721	T Lazy S Ranch	720
Palisade	721	Tenneco	720
Panaca	720	Tonpah	720
Paradise Valley	720	Topaz Lake	720
Pioche	720	Trinity	720
Pioche Transfer East	720	Tuscarora	720
Pioche Transfer North	720	Twin Springs	720
Primeaux Station	720	Upper Muddy	721
Pyramid Lake Toll Region	720	Virginia City	720
Rabbit Springs	720	Vista Mountain	720
Railroad Valley	720	Wells	720
Red Rock	720	Wendover	660
Reno	720	Winnemucca	720
Rhyolite	721	Yerington	720 (L3)
Rib Hill	720		
Rodeo Creek	720		
Round Mountain	720		
Rowland	720		
Ruby Valley	720 (L2)		

(L1)

Pages 3 and 4 are no longer in use and hereby withdrawn from this publication.

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Access Service

C17-A. DESIGNATED CARRIER ACCESS SERVICE

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C17-A. DESIGNATED CARRIER ACCESS SERVICE

17. DESIGNATED CARRIER ACCESS SERVICE (Cont'd)

17.1 GENERAL

Designated Carrier Access Service provides for the use of common terminating, switching, and trunking facilities and for the use of common subscriber plant used in the switching and transport of end user originating and terminating intraLATA Message Toll, WATS and 800 Service traffic. Designated Carrier Access Service provides the ability to originate calls from an end user's premises and terminate at a called end user's premises located within the same LATA over jointly provided facilities.

17.2 TRANSPORT ARRANGEMENTS AND MANNER OF PROVISION

- A. Designated Carrier Switched Access provides trunk side access to Utility (Nondesignated Carrier) end office switches for Utility (Designated Carrier) use in originating and terminating communications between end users within the same LATA. Originating and terminating intraLATA access is available only to designated exchange carriers for the provision of intraLATA MTS, WATS and 800 Service. Special Access Services utilized for connection with IntraLATA Carrier Switched Access at Utility designated WATS Serving Offices as set forth in C7. preceding may be ordered separately by a customer other than the Designated Carrier (i.e., intraLATA joint facility provider) for the provision of WATS services.
- B. Designated Carrier Switched Access Service has no special manner of provisioning. IntraLATA existing toll network provisioning procedures are provided under current joint toll network provisioning agreements.

17.3 TERMS, REGULATIONS, CONDITIONS AND DESCRIPTION

A. DESIGNATED CARRIER SWITCHED ACCESS SERVICE

For terms, conditions, regulations and descriptions applicable to Message Telephone Service this section concurs in the preceding sections listed below:

C2-A GENERAL REGULATIONS

C3-A. CARRIER COMMON LINE ACCESS SERVICE (Sec. 3.1 through 3.8)

C6-A. SWITCHED ACCESS SERVICE

C17-A. DESIGNATED CARRIER ACCESS SERVICE

17. DESIGNATED CARRIER ACCESS SERVICE (Cont'd)

17.4 RATE REGULATIONS

A. LOCAL TRANSPORT FACILITY

The Local Transport Facility rate will be a single rate element assessed on a per mile per access minute basis to recover distance sensitive cost.

Facility transport distance is measured between the end office and the Designated Carrier meet point using the V and H coordinates method in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. F.C.C. NO. 4.

B. END OFFICE

The end office rate element will be a single rate element used to recover all traffic sensitive access cost on a per end office minutes of use basis.

The end office rate element includes line termination, local switching, transport termination, intercept and the directory assistance surcharge.

17.5 RATES AND CHARGES

17.5.1 LOCAL TRANSPORT FACILITY

<u>Local Transport Facility</u>	<u>Rate</u>
- Per mile, per access minute	\$0.000215

17.5.2 END OFFICE

<u>End Office</u>	
- Per access minute	\$0.019756

Access Service

C18-A. WIRELESS INTERCONNECTION SERVICE

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(T)

(T)

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C18-A. WIRELESS INTERCONNECTION SERVICE

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C18-A. WIRELESS INTERCONNECTION SERVICE

18-A. WIRELESS INTERCONNECTION SERVICE

18.1 GENERAL

Wireless Interconnection Service is available to Cellular Mobile Carriers (CMC) for use in furnishing their services to End Users. Wireless Interconnection Service may not be used as a substitute for the Utility's local and/or general exchange and/or access services. Wireless Interconnection Service provides for the ability to complete mobile-to-land calls from the CMC Point of Termination (POT) and terminate land-to-mobile calls at the CMC POT. Specific references to material describing elements of Wireless Interconnection Service are provided in P.S.C.N. C18.2.3. Rates and charges for Wireless Interconnection Service are set forth in C18.7.1 following. The application of rates for Wireless Interconnection Service is described in C18.6.1 following. Rates and charges for services other than Wireless Interconnection Service, e.g., a customer's toll message service, may also be applicable when Wireless Interconnection Service is used in conjunction with these other services. Descriptions of such applicability are provided in C18.1.2 following.

18.1.1 WIRELESS INTERCONNECTION SERVICE ARRANGEMENTS AND MANNER OF PROVISION (L1)

Wireless Interconnection Service is provided in several different serving arrangements. These are differentiated by their technical characteristics, e.g., line side vs. trunk side connection, and available from Utility end office or from the access tandem. A brief description of each wireless interconnection arrangement is in C18.2 following. Ordering conditions in the provision of Wireless Interconnection Service are set forth in C5.1.1 preceding. (L1)

Type 2A and 2B Wireless Interconnection Service are trunk side connections while Type 1 may be a line or trunk side connection. The trunk side signalling may be FGD and is more fully described under Technical Specifications. The line side connection may be loop start or ground start. Technical limitations may dictate separate trunk groups for different traffic types. Ordering conditions in the provision of Wireless Interconnection Service are set forth in C5 preceding. (L2)

Wireless Tandem Transport is also available to CMCs for use in terminating local dialed calls on Type 2A Wireless Interconnection trunks.

Type 1 and 2B Wireless Interconnection trunks are available from Utility end offices; Type 1 (without 911 traffic) and Type 2A Wireless Interconnection trunks are available from the access tandem at rates set forth in the following section. When Type 2A Wireless Interconnection Service is selected it must be used for all non-ancillary access. CMCs may not mix measured and flat rate service for Wireless Interconnection. (L2)

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ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

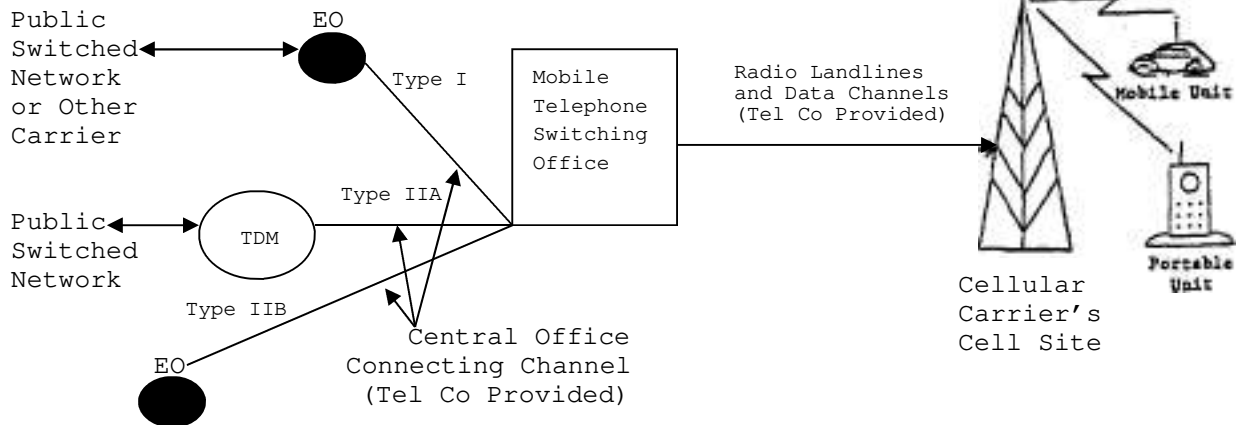
18.1 GENERAL (Cont'd)

18.1.1 WIRELESS INTERCONNECTION SERVICE ARRANGEMENTS AND MANNER OF PROVISION
(Cont'd)

(L1)

The following diagram depicts a generic configuration of a cellular system and the interconnecting facilities.

(L2)



(L2)

18.1.2 RATE CATEGORIES

(L3)

A. DESCRIPTION

1. Wireless interconnection is a two-way voice frequency transmission path composed of facilities determined by the Utility.
2. The Utility will work cooperatively with the customer in determining (1) whether the service is to be directly routed to an end office switch or through an access tandem switch, and (2) the directionality of the service.
3. Wireless Interconnection Service is provided at rates and charges set forth in C18.7.1 following. The usage sensitive rates are applied on a per minute of use basis.

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ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

18.1 GENERAL (Cont'd)

(L1)

(L2)

18.1.5 TESTING

(L3)

The Utility will provide Acceptance Testing and Routine Testing in accordance with Switched Access Testing described in Section C6.1.6 preceding. Access to 100, 102, 105 and 107 type test lines will be provided subject to network considerations. Additional Automatic Testing, and Additional Manual Testing are available as set forth in C13.3.5 preceding.

(L3)

18.2 PROVISION AND DESCRIPTION OF WIRELESS INTERCONNECTION SERVICE

(L4)

Wireless Interconnection Service is ordered under the Access Order provision set forth in C5.2 preceding. Also, included in that section are other charges which may be associated with ordering Wireless Interconnection Service (e.g., Service Date Change Charges, Cancellation Charges, etc.)

18.2.1 MANNER OF PROVISION

Wireless Interconnection Service is ordered under the Access Order provision set forth in C5.2 preceding. Also, included in that section are other charges which may be associated with ordering Wireless Interconnection Service (e.g., Service Date Change Charges, Cancellation Charges, etc.)

Type 2A Wireless Interconnection Service is provided the same as the FGD Switched Access arrangements. Type 2A Wireless Interconnection Service is only available from the access tandem. Type 1 Wireless Interconnection Service (without 911 Traffic) is available from the access tandem. The Type 1 and 2B interconnection is available from end offices and provided the same as PBX arrangements. All Wireless Interconnection trunks may be arranged for either originating, terminating, or two-way calling depending on network limitations. The Utility will work cooperatively with the customer to determine trunk and number requirements.

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ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

(L1)

18.2 PROVISION AND DESCRIPTION OF WIRELESS INTERCONNECTION SERVICE (Cont'd)

(L2)

18.2.2 TRAFFIC TYPES

Wireless Interconnection Service is provided in several different serving arrangements and may require joint engineering. The categories of CMC traffic are as follows:

- IntraLATA mobile-to-land
 - Includes service codes 611 and 811
 - 911 is not available at the access tandem
- InterLATA mobile-to-land
- InterLATA and IntraLATA land-to-mobile
- Nevada Bell operator assistance mobile-to-land
 - Includes IEC operator handoff to IECs with Operator Services Signaling (OSS) trunking
- InterLATA operator assistance mobile-to-land
- Directory assistance mobile-to-land
- 800 service access codes mobile-to-land
- 900 service access codes mobile-to-land

Because some customers will not require all traffic types or because segregation may be required by network considerations some of these traffic types may be combined on the same trunk group.

(L2)

18.2.3 DESCRIPTIONS

(L3)

A. Type 1 Trunk

The Type 1 trunk is a dedicated one-way trunk between the Utility end office and the CMC's POT. Type 1 "subscriber line treatment" allows incoming calls from the CMC to be connected to any valid office code(s) as well as Repair Service, Directory Assistance, Operator Assistance or services provided by interexchange carriers, other CMCs or Local Exchange Carriers. Calls from the public switched network to the CMC are connected through the end office associated with the called cellular mobile station number.

B. Type 2A Trunk

The Type 2A Trunk is a dedicated two-way trunk between the Utility tandem office and the CMC's POT. Incoming calls from the CMC are connected to any valid office code(s) within the LATA. Calls from the public switched network are connected to the CMC through the tandem office associated with the called cellular mobile station number.

C. Type 2B Trunk

The Type 2B Trunk is a dedicated one-way or two-way trunk with (DID) option between the Utility end office and the CMC's POT. Incoming calls from the CMC are connected only to those valid subscriber telephone numbers served by the Utility end office. Calls from the Utility end office are connected to the Cellular Carrier.

(L3)

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ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

	(L1)
18.2 PROVISION AND DESCRIPTION OF WIRELESS INTERCONNECTION SERVICE (Cont'd)	(L2)
18.2.4 OPTIONAL FEATURES	
1. Bill Number Screening	
2. Alternate Traffic Routing	(L2)
18.2.5 TRANSMISSION SPECIFICATIONS	(L3)
Wireless Interconnection Service is provided with standard transmission path specifications. Switched Access transmission specifications described in section C6.4 preceding also apply to Type 2A Wireless Interconnection Service.	(L3)
18.3 TECHNICAL SPECIFICATIONS	(L4)
The design, installation, operation and maintenance of all circuits, equipment, and other facilities used in providing Wireless Interconnection Service shall be made in accordance with the following technical specifications, including but not limited to: Technical Reference TR-NPL-000145, Technical Reference TR-EOP-000352, Technical Reference TR-NPL-000334 and Special Report SR-TSV-002275. These specifications are available through Bell Communications Research (BELLCORE), 60 New England Avenue, Piscataway, NJ 08854 as set forth in C1.1.4 preceding.	(L4)
18.4 OBLIGATIONS OF THE UTILITY	(L5)
In addition to the obligations of the Utility set forth in C2-A preceding, the Utility has certain other obligations pertaining only to the provisioning of Type 2A Wireless Interconnection Service. These obligations are as follows:	
18.4.1 NETWORK MANAGEMENT	
The Utility will administer its network to insure the provision of acceptable service levels of all telecommunications users of the Utility's network services. Generally, service levels are considered acceptable only when both End Users and customers are able to establish connections with little or no delay encountered within the Utility network. The Utility 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 customer's Wireless Interconnection Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Utility or customer facilities, natural disasters, mass calling, or national security demands. In the event that the protective controls applied by the Utility result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in C2.4.4 preceding.	(L5)

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(L4) Material now appearing on this page previously appeared on Page 13.	
(L5) Material now appearing on this page previously appeared on Page 14.	(N)

ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

- (L1)
 - 18.4 OBLIGATIONS OF THE UTILITY (L2) (T)
 - 18.4.2 DESIGN AND ROUTING OF WIRELESS INTERCONNECTION SERVICE
 - The Utility will work cooperatively with the customer in determining acceptable network configuration between customer POT and Utility access tandem or end office. (L2)
 - 18.4.3 PROVISION OF SERVICE PERFORMANCE DATA (L3)
 - Subject to availability, end-to-end service performance data available to the Utility through its own service evaluation routing, may also be made available to the customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and non-completion performance, e.g., customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff 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.
 - 18.4.4 TRUNK GROUP USAGE REPORTS
 - Subject to availability, the Utility will make available trunk group data in the form of usage in CCS, peg count and overflow, to the customer, based on previously agreed to intervals.
 - The Utility will perform routine measurement functions to assure that an adequate number of transmission paths are in service. The utility will recommend that additional capacity (i.e., trunks) be ordered by the customer when additional paths are required to reduce the measured to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the tables in C6.5.7E preceding. (L3)
 - 18.5 OBLIGATIONS OF THE CUSTOMER (L4)
 - 18.5.1 SUPERVISORY SIGNALING
 - The customer's facilities shall provide the necessary on-hook, off-hook, answer and disconnect supervision. (L4)
- (L1) Material previously appearing on this page now appears on Page 4. (N)
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 (L3) Material now appearing on this page previously appeared on Page 15.
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C18-A. WIRELESS INTERCONNECTION SERVICE

(L1)

18.5 OBLIGATIONS OF THE CUSTOMER (Cont'd)

(L2) (T)

18.5.2 TRUNK MEASUREMENT REPORTS

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

18.5.3 DESIGN OF WIRELESS INTERCONNECTION SERVICES

When a customer orders Wireless Interconnection, it is the customer's responsibility to assure that sufficient access services have been ordered to handle its traffic.

(L2)

18.6 RATE REGULATIONS

(L3)

This section contains the specific regulations governing the rate and charges that apply for Wireless Interconnection Service.

18.6.1 DESCRIPTION AND APPLICATION OF RATES AND CHARGES

There are three types of rates and charges that apply to Wireless Interconnection Service.

A. MONTHLY RATES

Monthly rates are recurring and apply each month or fraction thereof that a specific rate element is provided. For billing purposes, each month is considered to have 30 days.

B. USAGE RATES

Usage rates are rates that apply only when a specific rate element is used. These are applied on a per access minutes or per call basis. Access minute charges are accumulated over a monthly period.

Terminating usage charges shall not apply pursuant to this tariff except as set forth in this section. In accordance with 47 CFR Section 20.11 and the FCC's ruling in CC Docket No. 01-92; FCC 05-42 (*T-Mobile Order*), terminating usage charges shall be negotiated as part of an interconnection agreement between CMC and AT&T Nevada. Prior to the negotiation of an interconnection agreement, but after a request for negotiation for such agreement has been made by CMC or AT&T Nevada, AT&T Nevada shall assess terminating usage charges calculated in accordance with 47 CFR Section 20.11 for interim rates.

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ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

(L1)

18.6 RATE REGULATIONS (Cont'd) (L2)

18.6.1 DESCRIPTION AND APPLICATION OF RATES AND CHARGES (Cont'd)

C. 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 Wireless Interconnection Service are installation of service and service rearrangements.

1. Installation of Service

Nonrecurring charges apply to each Wireless Interconnection Service installed (i.e., per trunk). The nonrecurring charges for Type 2A trunks are from section C6.8.1(B) (2) preceding while Type 1 and 2B are from Section A3 or A5 preceding.

Nonrecurring charges apply to each Wireless Tandem Transport installed (i.e., per end office). The nonrecurring charges are described in this section.

2. Service Rearrangements

All changes to existing services other than changes involving administrative activities will be treated as a discontinuance of the existing service and an installation of a new service. The nonrecurring charge 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 C6.7.7 preceding. (L2)

If, due to technical limitations of the Utility, a customer could not combine its traffic with other Wireless Interconnection Trunks, no charge shall apply to combine these trunk groups when it becomes technically possible. (L3)

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ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

18.6 RATE REGULATIONS (Cont'd)

(L1)
(L2)

18.6.1 DESCRIPTION AND APPLICATION OF RATES AND CHARGES (Cont'd)

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

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

For additions, changes or modifications to optional features that do not have their own separate nonrecurring charges, a charge equal to one half the nonrecurring (i.e., installation) charge will apply. When an optional feature is not required on each transmission path, but rather for an entire transmission path group only one such charge will apply (i.e., it will not apply per transmission path).

(L2)

D. APPLICATION OF RATES

(L3)

The specific application of these rates for a specific customer is dependent upon the type of Wireless Interconnection Service provided.

The rate applied for Type 2A Wireless Interconnection Service is a per mobile-to-land access minute rate.

The rates applied for Type 1 and Type 2B Wireless Interconnection Service are a monthly per trunk rate, which can be flat or measured, and a facility charge applied per trunk.

All types of Wireless Interconnection Service have a nonrecurring charge applied per trunk.

E. PAYMENT ARRANGEMENTS AND CREDIT ALLOWANCES

The specific application of payment arrangements and credit allowances are in Section C2A.2.4 preceding.

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ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

18.6 RATE REGULATIONS (Cont'd)

(L1)

(L2)

18.6.2 MEASURING WIRELESS INTERCONNECTION MINUTES

Wireless Interconnection Service is measured using switched access methods described in section C6.7.8 preceding. The mobile-to-land call is measured from the time the off-hook supervisory signal is received from the end office when the called customer answers until the access tandem receives an on-hook supervisory signal from either the terminating end office, indicating the terminating End User has disconnected, or the CMC's point of termination, whichever is recognized first by the access tandem switch.

In the event the customer message detail is not available because the Utility lost or damaged tapes or incurred recording system outages, the Utility will estimate the value of lost customer access minutes of use based on previously known values.

Where terminating measurement capability does not exist for Type 2A Wireless Interconnection Service the number of access minutes will be derived from jointly agreed customer or utility data. If data is not available, assumed access minutes as set for in C6.7.8 preceding will be used.

(L2)

18.7 WIRELESS INTERCONNECTION SERVICE TYPE 2A

(L3)

A. RATE

See PUCN Tariff C18-A, 18.6.1(B)

B. INSTALLATION

Nonrecurring Charge

- Per Trunk

See C6.8.1.B.2

18.7.1 WIRELESS INTERCONNECTION SERVICE TYPE 1 AND 2B

A. RATES

1. Type 1 and 2B Flat Rate Trunk

- Monthly Rate Per Flat Rate Trunk

See A5.3.3.B.2

2. Type 1 Measured Rate Trunk

- Monthly Rate Per Measured Rate Trunk

See A5.3.1.B.2

Also, see PUCN Tariff C18-A, 18.6.1(B)

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ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

			(L1)
18.7.1	WIRELESS INTERCONNECTION SERVICE TYPE 1 AND 2B (Cont'd)		(L2)
		Monthly Rates	
3.	Facility Charge		
a.	Per Trunk 2 Wire	\$22.48	
	-Each mile or fraction of a mile, with Mileage calculated between CMCs Point of Termination Serving Wire Center and Utility Serving Wire Center	\$00.47	
b.	Per Trunk 4 Wire	\$22.33	
	-Each mile or fraction of a mile, with Mileage calculated between CMCs Point of Termination Serving Wire Center and Utility Serving Wire Center	\$00.48	
B.	INSTALLATION	Nonrecurring Charge	
	-Per Trunk	See A3.3.1.10.C.1	(L2)
18.8	TANDEM TRANSPORT		(L3)
A.	REGULATIONS		
1.	Wireless Tandem Transport allows the termination of local numbers on a CMC Type 2A trunk group. This service is available for a one time nonrecurring charge per wire center.		
2.	The CMC shall be responsible for providing interception of calls to vacant and non-working tandem terminated numbers by means of attendant intercept or recorded announcement service.		
B.	RATES AND CHARGES	Nonrecurring Charge	
	Tandem Transport per wire center	\$960.00	
NOTE:	The nonrecurring charge applies to the first group of numbers in a wire center. There is no charge for additional numbers in the same wire center. There is no recurring charge for numbers.		(L3)

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ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

18.9 DIRECT-IN-DIALING TO CMC POT (L1)
(L2)

A. REGULATIONS

1. Direct-in-Dialing (DID) service permits calls incoming to a CMC MTSO over Type 2B trunk connections. DID service is provided subject to the availability of facilities and may be furnished from the central office which regularly serves the area in which the customer is located or from a foreign central office equipped to provide DID service subject to the appropriate intra/interexchange facility charges.
2. Rates are in addition to the rates shown elsewhere in the tariffs for the services with which this offering is associated (e.g. trunk-line rate and facility charge).
3. One primary listing will be furnished without charge for each separate trunk group. Additional listings can be obtained as specified in Tariff P.S.C.N. A5.
4. The CMC shall be responsible for providing interception of calls to vacant and non-working DID numbers by means of attendant intercept or recorded announcement service.
5. DID numbers are available in minimum groups of 100. Additional groups of 100 may be reserved for future use. The Utility does not guarantee to provide reserved numbers arranged in a consecutive manner. The Utility will be responsible for interception and administration of these numbers.

B. RATES AND CHARGES (L2)

	Nonrecurring	Monthly
1. DID to CMC POT		
a. Group to 100 DID numbers	\$400.00	None
b. Additional Group of 100 DID numbers		
- Each	\$ 75.00	None
c. DID Trunk Termination in Central Office (In addition to Type 2B Trunk-Line Rate)		
-Each	None	None

NOTE: The nonrecurring Charge applies to the first group of DID numbers only. (L3)

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ACCESS SERVICE

C18-A. WIRELESS INTERCONNECTION SERVICE

(L1)

(L2)

18.10 WIRELESS 911 CONNECTION CIRCUITS

(L3)

A. DEFINITIONS

Enhanced 911 Service (E911) - the functionality to route wireless 911 calls and the associated caller and/or location data of the wireless end user to the appropriate Public Safety Answering Point (PSAP).

Call Path Associated Signaling (CAS) A Wireless 911 solution set that utilizes the voice transmission path to also deliver the Mobile Directory Number and the caller's location to the PSAP.

Hybrid - A wireless 911 solution set that utilizes one transmission path to deliver the voice and Mobile Directory Number to the PSAP and a separate transmission path to deliver the caller's location information to the PSAP.

Non-Call Path Associated Signaling (NCAS) - A wireless 911 solution set that utilizes one transmission path to deliver the voice and a separate transmission path to deliver the Mobile Directory Number and the caller's location to the PSAP.

Shell Record - A partial ALI record which requires a dynamic update of the Emergency Services Routing Key (ESRK), Call Back Number, cell site and sector information for a Phase I deployment, and XY location data for a Phase II deployment. The dynamic update requires input from the wireless carrier's network prior to updating the ALI records and forwarding to the appropriate PSAP.

B. GENERAL REGULATIONS

1. Wireless 911 connection circuit service is provided to the Wireless Carrier to enable the Wireless Carrier's use of Nevada Bell Telephone Company, LLC's (NB's) 911 network service elements that NB uses in the provision of E911 Universal Emergency Number/911 Telecommunications Services, where NB is the 911 service provider. The Federal Communications Commission has, in FCC CC Docket 94-102, ordered that providers of Commercial Mobile Radio Service (CMRS) make available to their end users certain E911 services, and has established clear and certain deadlines by which said service must be available. Wireless 911 Connection Circuit service is compatible with CMRS provider Phase I and Phase II E911 obligations, as described in FCC CC Docket 94-102.

(T)

2. Wireless 911 connection circuit service is only available to Carriers for use in the provision of Universal Emergency Number Service, to the extent required by the Telecommunications Act of 1934, as amended by the Telecommunications Act of 1996 ("the Act"), 47 USC Section 151 and the rules and regulations of the Federal Communications Commission and the Public Utilities Commission of Nevada.

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C18-A. WIRELESS INTERCONNECTION SERVICE

(L1)

18.10 WIRELESS 911 CONNECTION CIRCUITS (Cont')

(L2)

C. DESCRIPTION OF SERVICE

1. Wireless 911 Connection Circuits

- a. Wireless 911 connection circuit is a DS0 level one-way, non-measured 4-wire terminating trunk with SS7 functionality that is transported from the Wireless Carrier's Mobile Switching Center (MSC) to NB's designated 911 Selective Router Switch, as technically defined in Telcordia Technical Reference GR145-CORE. The Wireless 911 connection circuits must be dedicated to 911 service use. Both recurring and nonrecurring charges apply to this service.
- b. The Wireless Carrier must provide a minimum of two dedicated Wireless 911 trunks from the point of connection to the 911 Selective Routing Switch for the provision of 911 service.
- c. In addition to the Wireless 911 connection circuits, the Wireless Carrier must provide the DS1 level facility, used exclusively for the delivery of 911 emergency traffic, to transport the DS0 level trunks. The Carrier may purchase the DS1 level facility from NB as outlined in Section 7 of Tariff P.U.C.N. C7-A.

2. Terms and Conditions

- a. The prices for Wireless 911 connection circuit service do not include the inspection or monitoring of the Wireless Carrier's facilities to discover errors, defects and malfunctions in the service, nor does NB undertake such responsibility. The wireless Carrier shall be responsible for making such operational tests as, in the judgment of the Wireless Carrier, are required to determine whether the facility is functioning properly for its use. The Wireless Carrier shall promptly notify NB in the event that their facilities are not functioning properly.
- b. Notwithstanding anything to the contrary contained herein, NB's liability to the requesting Wireless Carrier and any third person shall be limited to the maximum extent permitted by Applicable Law. Under no circumstances shall NB incur any liability, direct or indirect, to any other person on whose behalf a 911 call is made.
- c. NB will not be liable to the Wireless Carrier or its customers for any failure with respect to the completion of emergency calls made to an Operator.
- d. If applicable, the 911 calling party forfeits the privacy afforded by Private and Semi-Private Listing Service to the extent that the name, telephone number, address and language, medical, and disability information associated with the originating station location are furnished to the Public Safety Answering Point.

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C18-A. WIRELESS INTERCONNECTION SERVICE

(L1)

(L2)

18.10 WIRELESS 911 CONNECTION CIRCUITS (Cont'd)

(L3) (T)

C. DESCRIPTION OF SERVICE (Cont'd)

2. Terms and Conditions (Cont'd)

e. The Wireless Carrier shall be responsible for the payment of all charges billed by NB for the provision of Wireless 911 connection circuit service as prescribed in this tariff, by law, and/or any applicable agreement with the Wireless Carrier. NB shall not be liable for disconnection for nonpayment of applicable charges, resulting from the Wireless Carrier's provision of Universal Emergency Number/911 Telecommunications Service.

f. Before implementing Phase II E911 service within a particular E911 service area, the Wireless Carrier shall provide NB with five months advance notice. The Call Path Associated Signaling (CAS) solution does not support Phase II and Wireless Carriers that utilize CAS for Phase I will be required to migrate to Non-Call Path Associated Signaling (NCAS) or Hybrid Solutions for Phase II implementation.

3. Database Responsibilities

a. Once E911 trunking has been established and tested between the Wireless Carrier's MSC and all appropriate Selective Router Switches, the Wireless Carrier or its representatives shall be responsible for providing the Carrier's Automatic Location Identification (ALI) Records to the appropriate 911 Database Provider. Where NB is the 911 Database Provider and the Wireless Carrier deploys a CAS or Hybrid CAS solution, the following requirements shall apply:

(1) The Wireless Carrier or its agent shall provide initial and ongoing updates of the Wireless Carrier's ALI Records that are in electronic format based upon established National Emergency Number Association (NENA) standards.

(2) The Wireless Carrier shall adopt use of a Company ID on all Carrier ALI Records in accordance with NENA standards. The Company ID is used to identify the dial tone provider.

(3) The Wireless Carrier is responsible for providing updates to the NB ALI database; in addition, the Wireless Carrier is responsible for correcting any errors that may occur during the mechanized entry of its data to the NB 911 Database Management System (DBMS).

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C18-A. WIRELESS INTERCONNECTION SERVICE

18.10 WIRELESS 911 CONNECTION CIRCUITS (Cont'd)

(L1)
(L2)

C. DESCRIPTION OF SERVICE (Cont'd)

3. Database Responsibilities (Cont'd)

b. Where the Wireless Carrier deploys an NCAS solution, the following requirements shall apply:

- (1) Wireless Carrier's designated third-party provider shall perform the above database functions.
- (2) Wireless Carrier's designated third party shall be responsible for ensuring Wireless Carrier's Shell Records for ALI are submitted to NB, for inclusion in NB's DBMS on a timely basis, once E911 trunking has been established and tested between Wireless Carrier's Mobile Switching Center (MSC) and all appropriate SRs.
- (3) Wireless Carrier's third party provider shall provide initial and ongoing updates of Wireless Carrier's Shell Records for ALI that are in electronic format based upon established NENA standards.

c. In all applications (CAS, NCAS, HCAS), the Wireless Carrier shall be responsible for any additional database charges incurred by the Wireless Carrier or its third party agent for errors in the NB ALI database.

d. The Wireless Carrier shall be solely responsible for providing test records and conducting call-through testing on all new licensed areas.

4. Additional Responsibilities

The Wireless Carrier will be required to provide a 56 Kbps frame relay circuit to send the location data from a third party database or a third party Mobile Positioning Center (MPC) to NB's ALI Server. The Wireless Carrier may purchase the circuit from a vendor of its choice.

D. RATE REGULATIONS

1. Monthly rates apply on a per trunk basis. A nonrecurring charge applies for each request to establish or change a Wireless 911 connection trunk, on a per trunk basis.
2. The minimum service period for Wireless 911 connection trunks is 30 days.
3. Prices for route diversity will be determined on an individual case basis (ICB).

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C18-A. WIRELESS INTERCONNECTION SERVICE

				(L1)
18.10 WIRELESS 911 CONNECTION CIRCUITS (Cont'd)				(L2)
E. RATES AND CHARGES				
		<u>Nonrecurring Charge</u>		
1. Wireless 911 Connection Circuit, - per DS0 Channel		Refer to FGB, FGC, FGD rates in Tariff P.U.C.N. No. C6-A,		(D)
		<u>Monthly Rate</u>		
		<u>Fixed</u> <u>Per Mile</u>		
		Refer to Direct Trunk Transport Per Transport Channel rates in Tariff P.U.C.N. No. C6-A,		(D)
2. DS1 Transport, if required		Refer to Tariff P.U.C.N. No. C7-A		(L2)

Pages 19 through 31 are no longer in use and hereby withdrawn from this publication.

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C19-A. RESERVED FOR FUTURE USE (T)

TABLE OF CONTENTS Sheets A through G are no longer in use and hereby (N)
withdrawn from this publication. (N)

Pages 1 through 115 are no longer in use and hereby withdrawn from this (N)
publication. (N)

Access Service

C22-A. Metropolitan Statistical Area Access Services

This section concurs in Nevada Bell Telephone Company, LLC (NBTC's) Tariff (T) FCC No. 1, Section 22, which can be accessed via the following hypertext link:

<http://cpr.web.att.com/pdf/fcc-nb/1022.pdf>

Exceptions to this concurrence of NBTC's Tariff FCC No. 1, Section 22, are as listed below. The following cited exceptions relate to that specific section in the interstate Tariff FCC No. 1.

22.1 General Description

Special Access is not available in the intrastate jurisdiction.

22.3 Services Available in an MSA

Special Access is not available in the intrastate jurisdiction.

22.5 Rates and Charges

22.5.1 Switched Access Service/Dedicated Transport

22.5.1(D) SS7 Interconnection

(1) SS7 Links does not apply to the intrastate jurisdiction.

	Direct-Trunked Transport		<u>Fixed</u>	<u>Per Mile</u>
22.5.1(B)(2)	DS1 (per DS1) Over 0	1L5SW	\$ 51.52	\$ 3.30

22.5.2 Special Access Service

Special Access is not available in the intrastate jurisdiction.

ACCESS SERVICE

C23-A. RESERVED FOR FUTURE USE

Pages 2 through 16 are no longer in use and hereby withdrawn from this publication.

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