7. Special Access Service (Cont'd)

7.2 Service Descriptions

Clear Channel Capability
DS3 Service

///TR-NPL-000054
TR-INS-000342

Optical Interface: OC-3 Service,

OC-12 Service, and AM-TR-TMO-000072
OC-48 Service AM-TR-TMO-000101 and
OC-192 Service AM-TR-NIS-000111

7.2.1 Metallic Service

(A) Basic Channel Description

A Metallic channel is an unconditioned two-wire channel capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises. Interoffice metallic facilities will be limited in length to a total of five miles per channel, and be provided where facilities are available. Interoffice metallic facilities (wire pairs) are in diminishing supply, and can be expected to become less available as optical fiber is deployed and wire cables are removed.

(D)

/1/ In these publications, Direct Analog Service is referred to as Voice Grade Service, Base Rate Service as Digital Data Service, and DS1 Service and DS3 Service as High Capacity Service.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.1 Metallic Service (Cont'd)

(B) Technical Specifications Packages

	Pac	kage M	Т	
Parameter	С	1	2	3
DC Resistance				
Between Conductors	Χ	Χ	Χ	
Loop Resistance	Χ			Χ
Shunt Capacitance	Χ			Χ

The technical specifications are delineated in Technical Reference TR-NPL-000336.

(C) Network Channel Interfaces

Compatible network channel interfaces are set forth in 7.3 following.

(D)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.2 Telegraph Grade Service

(A) Basic Channel Description

A Telegraph Grade Channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

(B) Technical Specifications Packages

	Package TG -			
Parameter	С	1	2	
Telegraph Distortion	Х	Χ	Х	

The technical specifications are delineated in Technical Reference TR-NPL-000336.

(C) Network Channel Interfaces

Compatible network channel interfaces are set forth in 7.3 following.

(D)

(D)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Direct Analog Service (Cont'd)

(B) Technical Specifications Packages (Cont'd)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference TR-NPL-000334 and TR-NPL-000335. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.

(C)Network Channel Interfaces

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

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

The following interfaces are available with DAL Service: LO, LS, DS, GO, GS, EA, EB, RV.

Compatible network channel interfaces are set forth in 7.3 following.

(D) Optional Features and Functions

(1) Central Office Bridging Capability

- (a) Voice and DAL Bridging (two-wire and four-wire)
- **(b)** Data Bridging (two-wire and four-wire)

(D)

(D)

- 7. Special Access Service (Cont'd)
 - 7.2 Service Descriptions (Cont'd)
 - 7.2.3 Direct Analog Service (Cont'd)
 - (D) Optional Features and Functions (Cont'd)
 - (2) Reserved for Future Use

(T)

(D) (D)

(3) Conditioning

Conditioning provides more specific transmission characteristics for Direct Analog Service. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

In addition, a customer may desire that either the attenuation distortion or the envelope delay distortion, or both, be improved to more stringent specifications than those provided with C-Type conditioning. In such cases the customer has the option of ordering Improved Attenuation Distortion and Improved Envelope Delay Distortion, either separately or in combination, in lieu of C-Type conditioning. When either improved option (Improved Attenuation Distortion or Improved Envelope Delay Distortion) is ordered without the other, the performance specifications for the other parameter will be those provided with C-Type conditioning at no additional charge.

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

- 7. Special Access Service (Cont'd)
 - 7.2 Service Descriptions (Cont'd)
 - 7.2.3 Direct Analog Service (Cont'd)
 - (D) Optional Features and Functions (Cont'd)
 - (7) Data Capability (Cont'd)

The Signal to C-Notched Noise Ratio and intermodulation distortion parameters for Data Capability are:

- Signal to C-Notched Noise Ratio is equal to or greater than 32dB
- Intermodulation distortion:
 - Signal to second order modulation products (R2) is equal to or greater than 38dB
 - Signal to third order modulation products (R3) is equal to or greater than 42dB

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

(8) Reserved for Future Use

(T)

(D)

(D)

- 7. Special Access Services (Cont'd)
 - 7.2 Service Descriptions (Cont'd)
 - 7.2.3 Direct Analog Service (Cont'd)
 - (D) Optional Features and Functions (Cont'd)
 - (9) Signaling Capability

Signaling Capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

(10) Reserved for Future Use

(T) (D)

(11) Reserved for Future Use

(T) (D)

(D)

- (12) DAL Options
 - (a) DAL Improved Voice Transmission
 - (i) Improved two-wire voice transmission

(D)

(b) Other Options

Certain other options associated with DAL services are either Line Termination or Common Switching optional features as defined in Section 6 preceding.

- 7. Special Access Service (Cont'd)
 - 7.2 Service Descriptions (Cont'd)
 - 7.2.3 Direct Analog Service (Cont'd)
 - **(E)** The following table shows the technical specifications packages with which the optional features and functions are available.

Available with Technical

	Specifications Package VG-												
	С	1	2	3	4	5	6	7	8	9	10	11	12
C-Type Conditioning Central Office Bridging	Х					Χ	Χ	Χ	Χ	X	Х		
Capability Central Office	Χ		Χ			Χ	Χ				Χ	Χ	Χ
Multiplexing Code Select Signaling	X						Χ						
Arrangement Customer Specified Premises Receive	Χ		X										
Level	Χ		Χ	Χ					Χ	Χ			
Data Capability Improved Attenuation	Χ						Χ	Χ			Х		
Distortion Improved Envelope	X					Χ	Χ	Χ	Χ	Χ	Χ		
Delay Distortion	Χ					Χ	Χ	Χ	Χ	Χ	Х		
Improved Termination Improved Return Loss For Effective Two-Wire	Х	X	X	X	X	X	X	X	X	X	X	X	X
Transmission	Χ		Χ	Χ				Χ					
Sealing Current Conditioning	Х					X	Х				Χ		
Signaling Capability	X	Χ	Χ	Χ		,,	, ,	Χ	Χ	Χ	^		

(D) (D)

(D)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

- 7.2.9 Base Rate Services, DS1 Service and DS3 Service (Cont'd)
 - (B) Channel Configuration (Cont'd)
 - (3) Optional Features and Functions (Cont'd)

Base Rate Services, DS1 Service and DS3 Service

(Application of Optional Features and Functions by Terminating Speeds)

	2.4 Kbps	4.8 Kbps	9.6 Kbps	56.0 kbps	19.2 Kbps PACKA	64.0 Kbps GES		544 bps	44.736 Kbps	
Parameter	DA-1	DA-2	DA-3	DA-4	DA-5	DA-6	HC-0	HC-1	HC-3	
Central Office, Bridging Capability Secondary Channel	X X	X X	X X	X X						1
Transfer Arrangement Interconnection - Central Office Multiplexing - DS3 to DS1 - DS1 to Voice/Base Rate/128.0, 256.0, 384.0 Kbps	Х	X	X	X				Х	Х	
Transport Fiber Hub Cross-								X		
Connection/1/ NRS Terminations/2/	Х	Х	Х	Х	Х	Х	Χ	X X	Х	
Multiplexer Cross- Connection								Χ	Х	

^{/1/} Description of this optional feature and function is delineated in Section 7.4 following.

^{/2/} Description of the Network Reconfiguration Service (NRS) is delineated in Section 7.2.9(B)(5) following.

- 7. Special Access Service (Cont'd)
 - 7.5 Rates and Charges
 - 7.5.1 Metallic Service

		USOC	Monthly Rate
(A)	Local Distribution Channel - Per point of termination	TNVG2	\$17.90
(B)	Channel Mileage Termination ^{/1/} - Per point of mileage termination	CM6	None
(C)	Channel Mileage ^{/1/} - Per mile 1L5XX 9).46	

(D)

/1/ Metallic circuits beyond five miles are limited to existing circuits.

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.2 Telegraph Grade Service

		USOC	Monthly Rate
(A)	Local Distribution Channel - Per point of termination - Two-Wire	T6E2X	\$32.83
	- Four-Wire	T6E4X	37.34
(B)	Channel Mileage Termination - Per point of mileage termination	CM6	14.97
(C)	Channel Mileage - Per mile	1L5XX	1.39



- 7. Special Access Service (cont'd)
 - 7.5 Rates and Charges (cont'd)
 - 7.5.3 Direct Analog Service (cont'd)

		USOC	Monthly Rate	Nonrecurring Charge
D	Optional Features and Functions (cont'd)			
1.	Bridging (cont'd)			
	(b) Data BridgingTwo-Wire/Four-Wire, Per PortTwo-WireFour-Wire	BCND2 BCND4	\$5.75 7.50	None None

(D) | | | | |

ICB rates and charges are filed in 7.6 following.

- 7. Special Access Service (Cont'd)
 - 7.5 Rates and Charges (Cont'd)
 - 7.5.3 Direct Analog Service (Cont'd)

Monthly Nonrecurring USOC Rate Charge

- (D) Optional Features and Functions (Cont'd)
 - (1) Bridging (Cont'd)

(D)

(D)

7. Special Access Service (cont'd)

7.5 Rates and Charges (cont'd)

7.5.3 Direct Analog Service (cont'd)

USOC	Monthly	Nonrecurring Charge
	Rate	

D. Optional Features and Functions (cont'd)



(T)

1. Conditioning

- Per point of termination

C – Type	X1CPT	\$ 5.10(R)	None
Improved Attenuation Distortion	UHW	5.75(R)	\$ 77.55
Improved Envelope Delay Distortion	UHY	66.90(R)	310.20
Sealing Current	1HBPT	None	None

7. Special Access Service (cont'd)

7.5 Rates and Charges (cont'd)

7.5.3 Direct Analog Service (cont'd)

		USOC	Monthly Rate	Nonrecurring Charge	
	Optional Features and Functions (cont'd)				
(3)	Improved Return Loss for Effective Two-Wire Transmission - Per point of termination - Two-Wire	1RL2W	\$ 2.35(R)	None	
(4)	Improved Termination - Per point of termination - Four-Wire	CP6	2.05(R)	None	
(5)	Customer Specified Receive Level - Per point of termination	RLS	.75(R)	None	
(6)	Reserved for Future Use				(T) (D)
(7)	Data Capability - Per point of termination	XDCPT	6.00	\$310.20	
(8)	Reserved for Future Use				(T) (D)

- 7. Special Access Service (Cont'd)
 - 7.5 Rates and Charges (Cont'd)
 - 7.5.3 Direct Analog Service (Cont'd)

Monthly Nonrecurring USOC Rate Charge

- (D) Optional Features and Functions (Cont'd)
 - (10) Reserved for Future Use

(D)

(11) Reserved for Future Use

(D)

(D)

(D)

(D)

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
 - 7.5 Rates and Charges (Cont'd)
 - 7.5.3 Direct Analog Service (Cont'd)

(D)		nal Features and tions (Cont'd)	USOC	Monthly Rate	Nonrecurring Charge
	(12)	DAL Improved Voice Transmission Improved Two-Wire transmission specifications - Per two-wire point of termination	X2T	None	None
	(13)	Line-Powered Data Station Termination Unit (Available with VG-6) - Per Point of Termination	LUN	\$ 7.97	None
	(14)	DS0 Fiber Hub Cross-Connection Direct Analog to Direct Analog 1 Day Notice 3 Days Notice	CX901 CX903	None None	\$206.80 \$155.10

- 7. Special Access Service (Cont'd)
 - 7.5 Rates and Charges (Cont'd)
 - 7.5.9 Base Rate Services, DS1 Service and DS3 Service (Cont'd)
 - (A) Base Rate Service (Cont'd)

(D)

(D)

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ACCESS SERVICE

- 7. Special Access Service (Cont'd)
 - 7.5 Rates and Charges (Cont'd)
 - 7.5.9 Base Rate Services, DS1 Service and DS3 Service (Cont'd)
 - (B) DS1 Service (Cont'd)
 - (5) Optional Features and Functions (Cont'd)
 - (c) Reserve for Future Use

(T)

(D)

(D)

16. Ameritech Interconnection Services (Cont'd)

16.5 Rates and Charges (Cont'd)

(4) Ameritech Cross-Connection Service for Interconnection (ACCSI) - for all AIS Services*# (Cont'd)

((Contra)				
В.	Special Access Connections: (cont'd)	USOC	Monthly	Nonrecurring Charge	
	DS1 DS3	CXCDX CXCEX	\$ 6.89 1.01	<u>-</u>	
	OC-3	CXCMX/OCCCX	104.00	-	
	OC-12	CXCNX/OCCDX	550.00	-	
	OC-48	CXCZX/OCCFX	1,100.00	-	
	OC-192	CZCAX	8,250.00	-	(D)
	WaveMAN SM OC-48 OC-192	CXCZX C2CAX	\$1,880.00 3,760.00	\$400.00 400.00	
	Ethernet Optical Collocation Cross-Connect	CCCA2	750.00	400.00	
	GigaMAN [®] 1 Gigabit Ethernet	OCLGX	1,500.00	400.00	
	AT&T Switched Ethernet Service SM 1 Gigabit Ethernet	OCLGX	0.45	97.98	
	OPT-E-MAN [®] 1 Gigabit Ethernet	OCLGX	100.00	200.00	
	CSME 1 Gigabit Ethernet	OCLGX	100.00	200.00	
	AT&T Switched Ethernet Service SM 10 Gigabit Ethernet	OCLHX	0.45	97.98	
	DecaMAN [®] 10 Gigabit Ethernet	OCLHX	3,500.00	400.00	

^{*} ACCSI charges will not apply to ACCSI arrangements used exclusively by a Connecting Carrier for AEOIS (ILL. C.C. No. 20, Part 23, Section 2) and/or Telecommunications Channel Services until such ACCSI arrangement is used for any other purpose.

[#] Refer to Section 20 for Illinois exceptions.

21. Metropolitan Statistical Area Access Services (Cont'd)

21.5 Rates and Charges (Cont'd)

21.5.2 Special Access Service

21.5.2.1 Metallic Service

	<u>USOC</u>	Monthly Rate
(A) Local Distribution Channel - per point of termination	TNJG2	\$17.90
(B) Channel Mileage Termination - per point of mileage termination	CM6	None
(C) Channel Mileage ^{/1/} - per mile	1L5XX	9.46

(D) | | | | | | |

/1/ Metallic circuits beyond five miles are limited to existing circuits.

21. Metropolitan Statistical Area Access Services (Cont'd)

- 21.5 Rates and Charges (Cont'd)
 - 21.5.2 Special Access Service (Cont'd)
 - 21.5.2.2 Telegraph Grade Service

	<u>USOC</u>	Monthly Rate
(A) Local Distribution Channel - Two-Wire		
Per point of terminationFour-Wire	TT6E2X	\$32.83
- Per point of termination	T6E4X	37.34
(B) Channel Mileage Terminationper point of mileage termination	CM6	14.97
(C Channel Mileage*per mile	1L5XX	1.39

(D)

(D)

ACCESS SERVICE

21. Metropolitan Statistical Area Access Service (Cont'd)

- 21.5 Rates and Charges (Cont'd)
 - 21.5.2 Special Access Service (Cont'd)
 - 21.5.2.3 Direct Analog Service

			Monthly		ommitment gram
		USOC	Rate	36 Month	60 Month
(A)	Local Distribution Channel (1) Direct Analog Service - Per point of termination - Two-Wire - Four-Wire	T6E2X T6E4X	\$24.15 40.25	\$20.50 32.00	\$20.00 30.00
	 (2) Dedicated Access Line Per point of termination/1/ Two Wire Four Wire 	X2W X4W	Apply rates ar Apply rates ar	•	
(B)	Channel Mileage Termination - Per point of mileage termination	CM6	17.54	13.00	12.00
(C)	Channel Mileage - Per mile	1L5XX	1.27	.80	.75

/1/ One Local Distribution Channel applies per Dedicated Access Line (DAL)

21. Metropolitan Statistical Area Access Services (Cont'd)

21.5 Rates and Charges (Cont'd)

21.5.2 Special Access Service (Cont'd)

21.5.2.3 Direct Analog Service (Cont'd)

(D)	Optional Features and Functions (Cont'd)	USOC	Monthly Rate	Nonrecurring Charge
	(1) Bridging (Cont'd)			
	(b)Data Bridging Two-Wire/Four-Wire - Per Port - Two-Wire - Four-Wire	BCND2 BCND4	\$6.61(I) 8.66(I)	



21. Metropolitan Statistical Area Access Services (Cont'd)

21.5 Rates and Charges (Cont'd)

21.5.2 Special Access Service (Cont'd)

21.5.2.3 Direct Analog Service (Cont'd)

(D)		nal Features and ons (Cont'd)	USOC	Monthly Rate	Nonrecurring Charge	
	(3)	Improved Return Loss for Effective Two-Wire Transmission - Per point of termination - Two-Wire	1RL2W	\$ 2.71	None	
	(4)	Improved Termination - Per point of termination - Four-Wire	CP6	2.38	None	
	(5)	Customer Specified Receive Level - Per point of termination	RLS	1.01	None	
	(6)	Reserved for Future Use				(T)
						(D)
	(7)	Data Capability - Per point of termination	XDCPT	6.90(I)	\$310.20	
	(8)	Reserve for Future Use				(T)
						(D)

Nonrecurring

Charge

ACCESS SERVICE

21. Metropolitan Statistical Area Access Services (Cont'd)

21.5 Rates and Charges (Cont'd)

21.5.2 Special Access Service (Cont'd)

21.5.2.3 Direct Analog Service (Cont'd)

(D)		onal Features and ctions (Cont'd)	
	(10)	Reserved for Future Use	(T)
			(D)

USOC

(11) Reserved for Future Use (T)

Monthly

Rate

(D)

(D)

(D)

(D)

ACCESS SERVICE

21. Metropolitan Statistical Area Access Services (Cont'd)

21.5 Rates and Charges (Cont'd)

21.5.2 Special Access Service (Cont'd)

21.5.2.3 Direct Analog Service (Cont'd)

(D)		onal Features and ctions (Cont'd)	USOC	Monthly Rate	Nonrecurring Charge
	(12)	DAL Improved Voice Transmission Improved Two-Wire transmission specifications - Per two-wire point of termination	X2T	None	None
	(13)	Line-Powered Data Station Termination Unit (Available with VG-6) - Per Point of Termination	LUN	\$ 9.17	None
	(14)	DS0 Fiber Hub Cross-Connection Direct Analog to Direct Analog 1 Day Notice 3 Days Notice	CX901 CX903	None None	\$206.80 \$155.10

21. Metropolitan Statistical Area Access Services (Cont'd)

21.5 Rates and Charges (Cont'd)

21.5.2 Special Access Service (Cont'd)

21.5.2.6 Direct Digital Service/1/

		USOC	Monthly Rate
(A)	Local Distribution Channel - Per point of termination - 2.4 Kbps - 4.8 Kbps - 9.6 Kbps - 56.0 Kbps	T6ECS T6ECS T6ECS T6ECS	\$100.00 100.00 100.00 100.00
(B)	Channel Mileage Termination - Per point of mileage termination - 2.4 Kbps - 4.8 Kbps - 9.6 Kbps - 56.0 Kbps	CM6 CM6 CM6 CM6	None None None None
(C)	Channel Mileage - Per Mile - 2.4 Kbps - 4.8 Kbps - 9.6 Kbps - 56.0 Kbps	1L5XX 1L5XX 1L5XX 1L5XX	1.40 1.40 1.40 1.40

(D)

(D)

/1/ Direct Digital Service is limited to circuits in place as of March 31, 1999 and available only until January 1, 2000, at which time the service will no longer be available. For regulations specific to DDS availability, limitations and conversions, see Section 7.4.20 preceding.

(D)

(D)

- 21. Metropolitan Statistical Area Access Services (Cont'd)
 - 21.5 Rates and Charges (Cont'd)
 - 21.5.2 Special Access Service (Cont'd)
 - 21.5.2.7 Base Rate Services, DS1 Service and DS3 Service (Cont'd)
 - (A) Base Rate Service (Cont'd)

USOC

Nonrecurring Charges
Customer Requested
Response in Work Days
3 Day 1 Day

- (5) Optional Features and Functions (Cont'd)
 - (d) Cross-Connection of Services

DSO to DSO CX903 \$150.00 Cross-connect CX901 \$200.00 Base Rate to

Nonrecurring Charge

(e) Shared Network Arrangement

Base Rate

Processing Chargeper Service OrderNRBOP\$34.50

(D)

(D)

(T)

(D)

(D)

ACCESS SERVICE

21. Metropolitan Statistical Area Access Services (Cont'd	21.	Metropolitan	Statistical	Area A	Access	Services	(Cont'd
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21.5 Rates and Charges (Cont'd)

21.5.2 Special Access Service (Cont'd)

21.5.2.7 Base Rate Services, DS1 Service and DS3 Service (Cont'd) (T)

(B) DS1 Service (Cont'd) (T)

(5) Optional Features and Functions (Cont'd)

(c) Reserved for Future Use