

**4. ASYNCHRONOUS TRANSFER MODE/CELL RELAY SERVICE (ATM/CRS) (Cont'd)****4.3 RATE ELEMENT DESCRIPTION (Cont'd)****B. LOGICAL CONNECTIONS (Cont'd)****2. Multicast or Point to Point**

When establishing service the customer must choose a Multicast (a.k.a. multipoint) or Point to Point configuration for each Logical Connection.

- a. Multicast: This Logical Connection provides a one-way transmission function between the originating point and the multipoints (a.k.a. leaves). A data stream originated by the sending customer is copied by the ATM Cell Relay Service network and sent to each of the multipoints. In multicast situations, separate point to point Logical Connections (VCC and/or VPC) can be established back to the communications origination point.
- b. Point to Point: This Logical Connection is a two-way transmission function and connects only two end points. This Logical Connection will be provided when Multicast is not requested.

**C. ATM CELL RELAY SERVICE FEATURES AND OPTIONS****1. Logical Connections**

Logical Connections can transmit information at constant bit rates or variable bit rates. Upon establishing service the customer must select for each Logical Connection a Constant Bit Rate (CBR), Variable Bit Rate (VBR), or a mix of these features for the Information Access Rate. The customer also has the option of selecting Customer Network Information or Network Reconfiguration Service<sup>/1/</sup> or both.

(C)

/1/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15.

(N)  
(N)

**1. HIGH CAPACITY SERVICE (cont'd)**

**E. OPTIONAL FEATURES AND FUNCTIONS (cont'd)**

4. Central Office Multiplexing

- DS4 to DS1

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

- DS3 to DS1

There are two options available with this feature:

Option 1

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

Option 2

An arrangement that converts a 44.736 Mbps channel to up to 28 channels for use with DS1 service when Network Reconfiguration Service<sup>/1/</sup> is requested as set forth in 2. (C)  
Advanced Digital Network, following.

- DS2 to DS1

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

- DS1C to DS

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

- DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the Hub can also be used for a Digital Data, Program Audio or Metallic Service.

/1/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15.

(N)  
(N)

**1. HIGH CAPACITY SERVICE (cont'd)**

**F. RATES AND CHARGES (cont'd)**

3. OPTIONAL FEATURES AND FUNCTIONS (cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
b. Advanced Digital Network Interface Arrangement - per termination	MQO	\$115.50	NONE

c. Reserved

(C)  
/1/

/1/ Material now appears in Part 20, Section 15, Sheet 59.

**2. ADVANCED DIGITAL NETWORK (cont'd)**

**D. OPTIONAL FEATURES AND FUNCTIONS (cont'd)**

3. Network Control and Diagnostics

Network Control and Diagnostics will provide the ability for the customer to accomplish such tasks as monitoring and isolation testing.

Network Control and Diagnostics is only available with variable speed selection. All terminations in a circuit must be similarly equipped.

/1/

/1/ Material now appears in Part 20, Section 15, Sheet 56.

**2. ADVANCED DIGITAL NETWORK (cont'd)**

**D. OPTIONAL FEATURES AND FUNCTIONS (cont'd)**

/1/

/1/ Material now appears in Part 20, Section 15, Sheet 57.

**2. ADVANCED DIGITAL NETWORK (cont'd)**

**D. OPTIONAL FEATURES AND FUNCTIONS (cont'd)**

4. Advanced Digital Network Channel Interface (C)

An Interface which provides an ADN channel to connect to a 1.544 Mbps multiplexer to be transported on a separate 1.544 Mbps service. One channel Interface shall apply per channel.

5. Central Office Multiplexing (C)

An arrangement that converts a 56.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps, or five 9.6 kbps channels using digital time division multiplexing.<sup>/1/</sup>

6. Through-connect<sup>/1/</sup> (C)

An arrangement that provides a customer the ability to connect two channels of two different 1.544 Mbps facilities terminating in the same digital cross-connect switch (DCS) in an ADN Hub. The two 1.544 Mbps facilities must be billed to the same customer. The customer must provide system and channel assignment data.

/1/ Available only on a channel of a 1.544 Mbps facility to a Company ADN Hub. The Network Reconfiguration Service feature is not offered on this arrangement.

**2. ADVANCED DIGITAL NETWORK (cont'd)**

**E. RATES (cont'd)**

3. OPTIONAL FEATURES AND FUNCTIONS (cont'd)

<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
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/1/ Material now appears in Part 20, Section 15, Sheet 58.

**2. ADVANCED DIGITAL NETWORK (cont'd)**

**E. RATES (cont'd)**

3. OPTIONAL FEATURES AND FUNCTIONS (cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	
				/1/
				/1/
c. Advanced Digital Network Channel Interface				(C)
- per channel	MQQ	\$26.40	\$357.00	
d. Central Office Multiplexing				(C)
- Per arrangement				
- Up to 20 2.4 kbps services	QSU24	125.00	None	
- Up to 10 4.8 kbps services	QSU48	125.00	None	
- Up to 5 9.6 kbps services	QSU96	125.00	None	
e. Through-connect, 64 kbps cross-connection				(C)
- Per cross-connect	DFOTC	None	\$30.00	

/1/ Material now appears in Part 20, Section 15, Sheet 58.



**4. ADVANCED DIGITAL NETWORK**

/2/(C)

**A. OPTIONAL FEATURES AND FUNCTIONS**

(C)

1. Network Reconfiguration Service<sup>/1/</sup>

/2/(C)

Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses.

(N)

Network Reconfiguration Service will allow the customer or AT&T technician to make changes in the individual circuit segments of their network. These changes can be mapped and stored, and executed automatically based on time of day, or the customer can make on demand changes based on disaster recovery or traffic smoothing requirements.

(N)

/2/

There are two alternatives that will allow a customer to access the circuits in their Network Reconfiguration Service database; (1) Client RAS or (2) Client VPN.

- a. Client RAS (Remote Administrator Software) is a dial-up configuration. Using a toll free 8XX number and a SecureID card, the NRS customer is allowed partitioned access to their NR database for the purpose of making changes within their ADN network.
- b. Client VPN (Virtual Private Networking) access can be granted to a customer who has dedicated Internet access. Utilizing specific software provided by the Company in addition to the SecureID card, the customer can access their NRS database for the purpose of making changes within their ADN network.

One rate element shall apply per DS0, DS1 or DS3 channel termination in the Digital Cross Connect machine.

/2/

/1/ Applicable to 1.544 Mbps service set forth in Part 15, Section 3, Paragraph 1. High Capacity Service.

/2/(C)

/2/ Material formerly appeared in Part 15, Section 3, Sheet 36.

**4. ADVANCED DIGITAL NETWORK (cont'd)**

/2/(C)

**A. OPTIONAL FEATURES AND FUNCTIONS (cont'd)**

(C)

1. Network Reconfiguration Service<sup>/1/</sup> (cont'd)

(C)

In addition, the customer must separately order the transport service DS0, DS1, DS3 required to connect the customer designated premises to the Port location at a Company Serving Wire Center.

The customers may order terminations that terminate at the Digital Cross-Connect Switch as part of their overall end to end service.

All terminations on a circuit configuration for the customer's network to be capable of reconfiguration must be similarly equipped.

In each of the above alternatives the customer will supply the compatible Network Channel Terminating Equipment designated in Technical Reference PUB L-780036 at their premises. The Company will provide the Network Channel Terminating Equipment at the Company site.

The customer is responsible for assigning and maintaining a record of all reconfigurations and access. The customer also agrees to provide the Company with a central point of contact for inquiries, trouble reports and security management involving reconfiguration.

In addition to, and not limiting the other provisions contained in the Company's tariffs or Guidebooks, the Company will not be responsible for any damage, loss or harm to Advanced Digital Network customers, and/or other Company customers which results from customer and/or third party misuse, unauthorized use, abuse or error using Advanced Digital Network features and/or failure of the customer to adhere to the security policies, methods and tools associated with this product. Such policies, methods and tools will be provided by the Company to the customer.

/2/

/1/ Applicable to 1.544 Mbps service set forth in Part 15, Section 3, Paragraph 1. High Capacity Service.

/2/ (C)

/2/ Material formerly appeared in Part 15, Section 3, Sheet 37.

**4. ADVANCED DIGITAL NETWORK (cont'd)**

/1/(C)

**A. OPTIONAL FEATURES AND FUNCTIONS (cont'd)**

(C)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	
2. Rates and Charges				(C)
a. Network Reconfiguration Service				(C)
(1) Per Channel Termination				(C)
- DS0	DFOCO	\$10.00	None	
- DS1	DFOCO	40.00	None	
(2) Per service arrangement				(C)
- 4 DS0	DFOC4	12.50	None	
- 6 DS0	DFOC6	15.00	None	
- 8 DS0	DFOC8	17.50	None	
- 12 DS0	DFOC1	20.00	None	
- 24 DS0	DFOCO	40.00	None	
(3) Network Reconfiguration Service Database				(C)
- Per Customer database	FN6DD	120.00	\$2,400.00	
(4) Network Reconfiguration Service Access Arrangement				(C)
- per Secure ID Card	RNQPA	120.00	None	/1/

/1/ Material formerly appeared in Part 15, Section 3, Sheets 40 and 41.

**5. HIGH CAPACITY SERVICE**

/2/

**A. OPTIONAL FEATURES AND FUNCTIONS**

1. Network Reconfiguration Service<sup>/1/</sup>

(C)

a. Rates and Charges

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
- per Fiber Advantage <sup>SM</sup> DS3 termination, per channel termination	CNND3	\$300.00	None

/2/

/1/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See paragraph 4.A.1.

(N)  
(N)

/2/ Material formerly in Part 15, Section 3, Sheet 30.