



SERVICE GUIDE HIGH CAPACITY SERVICES PRODUCT AND PRICING

1. SERVICE PRICES

Channel Termination - Per Point of Termination

	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mo.</u>	<u>48 Mo.</u>	<u>60 Mo.</u>	<u>84 Mo.</u>
DS1	TXGA4	\$145.00	\$145.00	\$137.00	\$129.00	\$125.60	\$122.21	\$110.00
DS3	TXGA4	\$750.00	\$750.00	\$725.00	\$700.00	\$677.00	\$654.00	\$600.00

Channel Mileage

DS1								
- Fixed	1YBA1	110.00	110.00	97.75	85.50	83.25	81.00	73.00
- Per mile	1YBA1	6.72	6.72	5.61	4.58	4.47	4.35	3.92
DS3								
- Fixed	1YBB1	490.00	490.00	390.00	290.00	265.00	240.00	216.00
- Per mile	1YBB1	9.99	9.99	9.00	8.00	7.00	6.00	5.50

Optional Features and Functions

Multiplexing DS3 to DS1	QM3X1	607.24
Multiplexing DS1 to Voice Grade	QMVX3	350.00
Multiplexing DS1 to Digital Data	QMKX3	350.00
Multiplexing DS1 to DS0	QMU	300.00
DS1 Alternate CO Channel	AVXA1	71.30
DS3 Alternate CO Channel	AVXB1	200.00
Service To Service Through Connect Arrangement	STM1X	None
Clear Channel Capability Per Channel Termination	CLR	None
Interoffice Access Diversity (EAD)	DZQX1	12.00

Customer Specified Signaling

Receive Level C6SRL 40.00

DS1 Digital Facility
Cross-Connection DXZ01 10.57

DS3 Digital Facility
Cross-Connection DXZ03 60.78

* One Year Minimum on all features and functions.

Special Construction charges may apply

Expedite Charge, per order: \$1,500.00 USOC: CX4GX

Design Change Charge, per order: \$ 100.00 USOC: H28

Service Date Change Charge, per order: \$ 100.00 USOC: OMC

Design Management Charge,
per request circuit level moved: \$1,150.00 USOC: PCC10

Circuit Identification Charge,
per occurrence: \$ 300.00 USOC: NRTAG

2. DESCRIPTION:

2.1 A High Capacity channel is a channel for the transmission of 1.544, or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer.

2.2 High Capacity channels are provided between customer designated premises, between a customer designated premises and a Telephone Company Hub.

2.3 A MercNET 45 High Capacity channel is a channel for the transmission of nominal 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. MercNET 45 High Capacity Service channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

2.4 An STS-1 High Capacity channel is a channel for the transmission of 51.840 Mbps synchronous data. One framing format allows Line, Section, and Path formats. STS-1 High Capacity Service channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

2.5 The customer is responsible for providing the Network Channel Terminating Equipment associated with the High Capacity channel at its premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

2.6

Technical Specifications Packages

Parameter	Package HC-					
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Seconds			X			

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference TR TSY 000342

2.7 Extended superframe signaling format may be provisioned and transported on channels with technical specifications package HCI.

2.8 Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity channel:

<u>CI</u>	<u>Bit Rate</u>
DS-15	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

2.9 Optional Features and Functions are:

- Alternate Central Office Channel: Provides a transmission path for services between the customer's premises and a wire center which is not the customer's serving wire center, thus avoiding the office which would normally serve the customer. It is available only where facilities exist using 1.544 and 45 Mbps high capacity service.
- Service To Service Through Connect Arrangement: Provides for the interconnection of two 1.544 Mbps channels extended from multiplexed DS3 high capacity services, or two DSO channels from multiplexed 1.544Mbps services. The ordering customer must provide channel assignments for both multiplexed services.
- 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/STS-1 to DS1 - An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

DS2 to DS1 - An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

DS1C to DS1 - 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(s) of this DS1 to the Hub can also be used for Program Audio, Metallic or WATS Access Line Service.

OC-3/STM-1 to DS3/STS-1 - An arrangement that converts an OC-3/STM-1 to three DS3/STS-1 channels.

The following table shows the technical specifications packages with which the optional features and functions are available.

	<u>Available with Technical Specifications Package HC-</u>					
	<u>Q</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
Clear Channel Capability	X					

- Clear Channel Capability is an optional feature that provides the customer with an increase in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity service and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code format as described in Technical Reference TR-TSY-000342. Customer equipment must be compatible with this method of providing the unconstrained signal.

- Enhanced Access Diversity (EAD): EAD is an optional feature in which DS3 Service is provided on a transmission facility alternately routed from the primary (Standard) transmission facility path. This feature utilizes existing physically diverse interoffice facilities, excluding equipment and facilities located in a wire center, to provide diversity between serving wire centers only. EAD may be provisioned on Telephone Company facilities where capability and capacity exist. Otherwise, the customer may order facilities under Special Construction. When placing orders for EAD, the customer must identify the services that will be diverse, and any facilities placed under Special Construction that will be used. The customer must also supply all appropriate facility assignments and other information to permit the Telephone Company to provide and maintain EAD service. When DS3 service is multiplexed, rates and charges for each EAD service connecting to the multiplexer will apply. Applicable rates and charges for the DS3 service will also apply if identified as an EAD service. Customers leasing Telephone Company-

provided multiplexers will provide and identify Connecting Facility Assignments of diverse services to the multiplexer.

- Customer Specified Signaling Level: Adds additional equipment at the customer premises to enable the customer to regulate the specific db loss level down to zero db loss.
- Digital Facility Cross-Connection: Enables customers to cross-connect special access circuits within the same central office from the customer's termination to a Light Guide Cross-Connect (LGX) or Digital Signal Cross Connect (DSX) panel. The customer's facilities must be physically adjacent to the LGX or DSX panels in the central office.

THIS CINCINNATI BELL SERVICES AGREEMENT IS SUBJECT TO CINCINNATI BELL GENERAL TERMS AND CONDITIONS. BY SUBMITTING AN ACCESS SERVICE REQUEST, CUSTOMER ACKNOWLEDGES THAT CUSTOMER HAS READ, UNDERSTANDS, ACCEPTS AND AGREES TO BE BOUND BY ALL SUCH TERMS AND CONDITIONS.

3 SERVICE AND RATES

3.9 In addition to the Service Prices, Customer will incur any and all charges that may be mandated by any regulatory Commission with jurisdiction over Cincinnati Bell or High Capacity Service .

3.10 If Customer cancels, in whole or in part, any requested addition, rearrangement, relocation or other modification to DS3 Service prior to completion thereof, Customer will reimburse Cincinnati Bell for the actual time and material expenses incurred by it in connection with such modification prior to Cincinnati Bell's receipt of notice of cancellation; provided, however, the amount of such reimbursement will not exceed the service, construction, installation, termination and other charges for which Customer would have otherwise been responsible.

3.3 Access Order service dates for the installation of new services or rearrangements of existing services may be changed, but the new service date may not exceed the original service date by more than 30 calendar days. When, for any reason, the customer indicates that service cannot be accepted for a period not to exceed 30 calendar days, and Cincinnati Bell accordingly delays the start of service, a Service Date Change Charge will apply. If the customer requested service date is more than 30 calendar days after the original service date, the order may be canceled by Cincinnati Bell and reissued with the appropriate cancellation charges applied unless the customer indicates that billing for the service is to commence.

3.4 If nonrecurring charges associated with the installation of High Capacity Service are waived and the High Capacity Service is then terminated prior to the expiration of the Initial Term, the Customer will become liable for payment of the waived charges.

4. TERM

4.1 High Capacity Service is available for a minimum term of 12 months, or under a term payment plan of 12, 24, 36, 48, 60 or 84 months. If a Customer terminates a service, without cause, prior to the expiration of the term, the Customer will pay to Cincinnati Bell a termination charge equal to all remaining amounts due or to become due, including but not limited to all monthly charges for which Customer would have been responsible if the Customer had not terminated prior to the end of the applicable 12, 24, 36, 48 60, or 84-month term payment plan.

4.2 The initial term for the individual services covered under this Supplement shall be specified in the applicable Access Service Request.

4.3 Following expiration of the term of a service covered under this Supplement, the service will automatically renew for a term of the same duration at the then-current rate in the rate schedule, unless either party provides written notice to terminate at least thirty (30) days prior to expiration of the initial or any renewal term.

5 . OUTAGE ADJUSTMENTS

5.1 An interruption of service will start when an inoperative High Capacity Service is reported to Cincinnati Bell and end when the service is operative. Any service interruptions greater than 2 consecutive hours will result in a credit equal to the applicable monthly charge for the service involved. In any month, as a result of an interruption or series of interruptions, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element and are the complete remedy to the Customer for service interruptions.