



## SERVICE GUIDE WAVELENGTH PRODUCT AND PRICING

### 1. SERVICE PRICES

	USOC	Monthly Rates					
		12 Month	24 Month	36 Month	48 Month	60 Month	84 Month
<b>FICON™/1/ISCT™ ESCONTM (1.0625 Gbps)</b>							
- protected channel							
PROAD		5,250.00	5,092.50	4,882.50	4,725.00	4,620.00	2,900.00
- unprotected channel							
UNPAD		2,625.00	2,546.25	2,441.25	2,362.50	2,310.00	1,450.00
<b>FICON™/1/ESCONTM (2.125 Gbps)</b>							
- protected channel							
PROBD		5,916.66	5,735.00	5,506.66	5,325.00	5,190.00	3,650.00
- unprotected channel							
UNPBD		2,958.33	2,867.50	2,753.33	2,662.50	2,595.00	1,825.00
<b>Fibre Channel (1.0625 Gbps)</b>							
- protected channel							
PROCD		5,250.00	5,092.50	4,882.50	4,725.00	4,620.00	2,900.00
- unprotected channel							
UNPCD		2,625.00	2,546.25	2,441.25	2,362.50	2,310.00	1,450.00
<b>Fibre Channel (2.125 Gbps)</b>							
- protected channel							
PRODD		5,916.66	5,735.00	5,506.66	5,325.00	5,190.00	3,650.00
- unprotected channel							
UNPDD		2,958.33	2,867.50	2,753.33	2,662.50	2,595.00	1,825.00
<b>SONET OC-192/OC-192c</b>							
- protected channel							
PROED		11,250.00	10,875.00	10,500.00	10,125.00	9,750.00	7,000.00
- unprotected channel							
UNPED		5,625.00	5,437.50	5,250.00	5,062.50	4,875.00	3,500.00
<b>1 Gbps Ethernet</b>							
- protected channel							
PROFD		5,250.00	5,092.50	4,882.50	4,725.00	4,620.00	2,900.00
- unprotected channel							
UNPFD		2,625.00	2,546.25	2,441.25	2,362.50	2,310.00	1,450.00
<b>10 Gbps Ethernet</b>							
- protected channel							
PROGD		11,250.00	10,875.00	10,500.00	10,125.00	9,750.00	7,000.00
- unprotected channel							
UNPGD		5,625.00	5,437.50	5,250.00	5,062.50	4,875.00	3,500.00
<b>40 Gbps OC768 &amp; OTU3/STM 256</b>							
- protected channel							

PROHD	45,000.00	35,000.00	26,250.00	25,326.00	24,350.00	17,500.00
- unprotected channel						
UNPHD	22,500.00	17,500.00	13,125.00	12,663.00	12,175.00	8,750.00

100 Gbps Ethernet

- protected channel						
PROJD	99,500.00	55,000.00	39,400.00	38,000.00	36,500.00	26,250.00
- unprotected channel						
UNPJD	49,750.00	27,500.00	19,700.00	19,000.00	18,250.00	13,125.00

Optional Features and Functions

10 Gbps Ethernet Intra-building Connection

UNPJE	1,100.00	1,000.00	900.00	800.00	700.00	650.00
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/1/ ESCON™, FICON™, and ISC™ are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504

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 Wavelength Service is a Special Access Service that provides high volume optical transport utilizing multiplexing technology in a point-to-point circuit configuration. Multiple data signals are transmitted over the same fiber-optic cable at the time, using different wavelengths of light, in order to increase the amount of information that can be transferred. Each wavelength represents a transmission channel in the Wavelength system and is protocol independent of every other channel in the system. Wavelength Service allows customers to combine their multiple data signals so they may be amplified and transported over one network. Wavelength Service provides dedicated capacity over a single pair of fiber in two directions that increases capacity without limiting customer-required data interfaces.

2.2 Wavelength Service provides a customer a dedicated custom network. The network is in a architecture designed to provide increased reliability and functionality connecting multiple customer-designated locations and specified Telephone Company central Offices The minimum configuration would be two ports either at a serving wire center or at a customer premises site. If the ports are not in a serving wire center, a central office

management site for monitoring is required. An optical amplifier located at a serving wire center can be used as a monitoring site. A combination of these configurations may be used in a network design depending on the customer's traffic pattern. Wavelength Point-to-Point Service configuration would be a port or ports at a customer premise site connecting through a Company central office to another customer premise site.

2.3 When any additional services are added, such installations may cause a service interruption to existing unprotected channels or a protection switch on protected channels.

2.4 Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of Wavelength Service. The Telephone Company will work cooperatively with the customer to determine if the desired services can operate between the customers designated premises.

2.5 Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of Wavelength Service. The Telephone Company will work cooperatively with the customer to determine if the desired services can operate between the customers designated premises.

2.6 A protective channel provides protection for a single channel toward the network. It does not protect the channel against failure towards the customer interface. Protection reduces the maximum individual channel capacity of the system.

2.7 Wavelength Service is configured with diversely routed fiber whenever possible. Unprotected channels will be lost in the event of a fiber path failure on which the circuit is assigned. Equipment interfaces towards the customer are not protected. Routing of fiber may be diversified from the customer premises to their serving wire center or alternate serving wire center as determined by the Telephone Company, and where facilities are available, to ensure that loop fibers follow separate paths to the serving wire center or alternate serving wire center. Special construction costs may be incurred to ensure diverse routing of the fiber. In addition, IOF (interoffice facility) fiber paths may be diversified to ensure that at any serving wire center drop node, the fibers do not egress and ingress at the same location. In cases where the serving wire center does not have multiple entrance fiber facilities, the section of the fiber from the manhole closest to the serving wire center will be routed within the same duct structure. Routing of fiber may be diversified from the customer premises to their serving wire center or alternate serving wire center as determined by the Telephone Company, and where facilities are available, to ensure that loop fibers follow separate paths to the serving wire center or alternate serving wire center.

2.8 Special construction costs may be incurred to ensure diverse routing of the fiber. In addition, IOF (interoffice facility) fiber paths may be diversified to ensure that at any serving wire center drop node, the fibers do not egress and ingress at the same location. In cases where the serving wire center does not have multiple entrance fiber facilities, the section of the fiber from the manhole closest to the serving wire center will be routed within the same duct structure.

2.9 At the customer's request, additional protection to the customer premises nodes can be provided via dual entrance facilities. This special request will cause the

customer to incur special construction costs. Without this special request, diverse fiber is provided to the manhole closest to the customer premises. The customer or building owner is responsible for providing the conduit.

2.10 In the case where dual entrance facilities are not established at the customer premises, collapsed facilities from the customer premises to the building equipment location are not diverse.

2.11 Wavelength Service offers the following port interfaces:

(1) IBM Protocols:

FICON™(1.0625 and 2.125 Gbps) - A higher-speed evolution of ESCON™, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICON™ is limited to a maximum distance of 100 km and actual data throughput is distance sensitive

ISCT™(1.0625 Gbps) - Inter-System Coupling. This protocol is used with IBM GDPSTM architecture for multiple-location host processors. ISCT™ is limited to a maximum distance of 40 km.

(2) Other Protocols:

Fibre Channel (1.0625 and 2.125 Gbps) - an industry standard protocol used to interconnect Storage Area Networks (SANs). Fibre Channel is limited to a maximum distance of 100 km and actual throughput is distance sensitive.

Gigabit Ethernet - a version of Ethernet that allows data transmission rates of 1 Gbps.

10 Gigabit Ethernet - a version of Ethernet that allows data transmission rates of 10 Gbps.

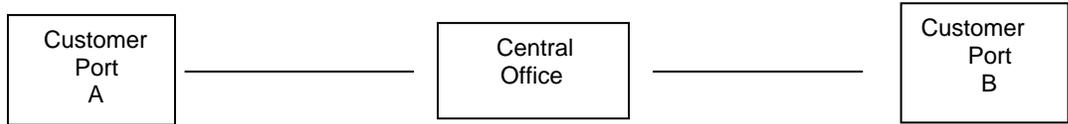
10 Gigabit Ethernet (WAN-PHY) - a version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface.

10 Gigabit Ethernet (LAN-PHY)- a version of Ethernet that allows data transmission rates of 10.3125 Gbps with a LAN-PHY only interface.

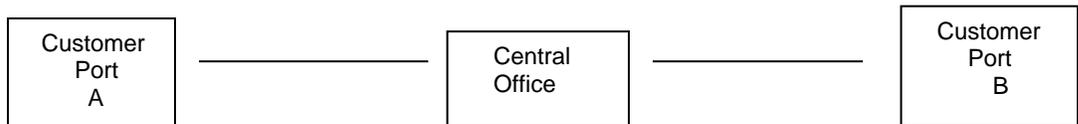
SONET OC-192/192c - provides a fiber-based 9953.28 Mbps synchronous optical full duplex data transmission capability.

## CBT Point-to-Point Wavelength Service

### UNPROTECTED



### PROTECTED



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

3.1 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 Wavelength Service .

3.2 10 Gbps Ethernet Intra-building Connection: This Optional Service allows a customer to connect with another customer located within the same building.

3.3 If Customer cancels, in whole or in part, any requested addition, rearrangement, relocation or other modification to Wavelength 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 Wavelength Service are waived and the Wavelength 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 Wavelength Service available for a minimum term of 12 months, or under a term payment plan of 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 Wavelength Service is reported to Cincinnati Bell and end when the service is operative. 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.

5.2 Any protected service interruptions greater than 2 consecutive seconds as a result of a failure on the protected portion of the circuit will result in a credit equal to one month's bill for the individual port- to-port connection involved.

5.3 For unprotected Ports, any service interruptions greater than 30 consecutive minutes will result in a credit equal to 1/1440 of the applicable monthly charge for the service involved. The same credit will apply for each additional 30-minute period that the service remains inoperable.