

Verizon North LLC

CONTROLINK® DIGITAL CHANNEL SERVICE*

(C)

A. GENERAL

1. CONTROLINK® Digital Channel Service provides an intraexchange digital common line connection between the end user's premises and the local serving wire center. The digital transmission rate available is either DS1 (1.544 Mbps) or DS3 (44.736 Mbps). (CONTROLINK® Digital Channel Service connections may be made to another central office, owned by the Company, within the same exchange, subject to D.3 following.)
2. CONTROLINK® Digital Channel Service will be used by the customer to aggregate the customer's telecommunication services onto a digital local loop. The services which can be combined include private line and switched services, intraexchange, intraLATA and interLATA services. A representative list of services which can use Digital Channel Service facility includes:
 - a. Exchange Dial Tone Service, e.g., exchange lines/trunks
 - b. Analog Transmission Services, e.g., Foreign Exchange Service, Private Line, Off-premise Extensions, Tie Lines
 - c. Digital Data Services (2.4, 4.8, 9.6, 56 or 64 Kbps)
 - d. DS1 (1.544 Mbps) Services
 - e. DS3 (44.736 Mbps) Services
 - f. Multi-Jurisdictional IntraOffice Channel Access
 - g. Multi-Jurisdictional InterOffice Channel Access
3. CONTROLINK® Digital Channel Service is comprised of the following components:

Digital Channel Capacity
Service Activation

 - a. The Digital Channel Capacity and Service Activation will be at the rates and charges as specified in F. following.
 - b. CONTROLINK® Digital Channel Service customers will order capacity in quantities of DS1 or DS3 facilities (increments of 24 channels for a DS1 facility or increments of 28 channels for a DS3 facility). Customers will be offered a Term Payment Plan of 36, 60 or 84 months. After completion of the selected payment plan, the service will be provided on a month-to-month basis at the same rate schedule as the completed payment plan.

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B. DIGITAL ARCHITECTURE

1. CONTROLINK® Digital Channel Service provides only the common line link between the End User and the local serving wire center. End-to-end private line and exchange services will utilize this digital link to the customer's premise, rather than the analog loop which might otherwise be provided. This architecture is intended to promote more efficient connectivity of analog and digital networks in the future.
2. The time required to provision service is known as the service date interval. The service date interval for CONTROLINK® Digital Channel Service and related network services connected to CONTROLINK® Digital Channel Service will differ from the normal guidelines applicable to end-to-end services.
3. CONTROLINK® Digital Channel Service will be available on a digital basis at the network interface on a customer's premises. Traditional analog services, like off-premises stations and PBX trunks, can be provided on a digital basis to a customer's premises by the Company when a customer desires them encoded in a DS1 bit stream. Under those conditions, they will be provided as DSO channels by the Company. Both the Company and the customer have joint responsibilities to ensure the proper transmission of the provided services. Normal analog channel network interface specifications will be superseded by the electrical specifications of the 1.544 Mbps (DS1) or 44.746 Mbps (DS3) channel which is actually terminated. Each digital channel provided will have an identity only as a "time slot" within a DS1 or DS3 loop. Compatible digital to channelized conversion equipment must be provided by the customer to derive the desired analog services. Any Channel Service Units (CSUs) necessary for digital services are the responsibility of the customer.

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C. DEFINITIONS

Channel Service Unit (CSU) - The term CSU denotes network channel terminating equipment provided by the customer to terminate digital facilities on a customer's premises.

Digital Channel Capacity - A multifunctional DS1 or DS3 signal between the customer premises and the central office. This digital link can be used to transport switched and dedicated multijurisdictional services. This element acts as the transport medium for the service activations ordered by the customer. Digital Channel Capacity is available in quantities of DS1 or DS3 facilities.

DS0 - The term DS0 denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It is generally referred to as having a 64 Kbps transmission bit rate signal; however, customer transmission rates may be limited to 56 Kbps by existing or available central office equipment. The required format and interface specifications are stated in Section 7000 of the Verizon Technical Interface Reference Manual.

DS1 - The term DS1 denotes a channel service expressed in terms of its digitally encoded bit rate in accordance with the North American hierarchy of digital signal levels. It has a 1.544 Mbps transmission bit rate and provides for the two-way simultaneous transmission of isochronous timed, Bipolar Return-to-Zero (BPRZ) bit stream format. Unframed signal formats are not permitted or compatible with Company equipment. The required format and interface specifications are stated in Section 7000 of the Verizon Technical Interface Reference Manual. DS1 facilities are normally provided on copper transmission medium.

DS3 - The term DS3 denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It has a 44.736 Mbps transmission bit rate and provides for the two-way simultaneous transmission of isochronous timed, Bipolar Return-to-Zero (BPRZ) bit stream format. The required format and interface specifications are stated in Section 7000 of the Verizon Technical Interface Reference Manual. DS3 facilities are provided on fiber optic transmission medium.

Service Activation - A Service Activation is the connection between CONTROLINK® Digital Channel facility and the network service accessed.

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D. REGULATIONS

1. CONTROLINK® Digital Channel Service is furnished subject to the availability and type of digital equipment located in a central office building owned or leased by the Company. Service inquiries will be necessary to determine availability.
2. Special Construction Charges as specified in Section 4 of Telephone-Pa. P.U.C. No. 4 may be applicable.
3. The 1.544 Interoffice Channel mileage as specified in Section 13 of Telephone-Pa. P.U.C. No. 4 will apply when a customer's request for CONTROLINK® Digital Channel Service is provisioned in a central office other than the customer's local serving wire center.
4. The customer may activate any number or combination of digital channels within the limitations as set forth in D.7 below. Digital channels may be activated coincident with or at any time subsequent to the initial installation of CONTROLINK® Digital Channel Service. Once activated, a digital channel is subject to a minimum service period.
5. All CONTROLINK® Digital Channel Service capacity/ facilities must be terminated at a single equipment location on a customer's premises. CONTROLINK® Digital Channel Service capacity cannot be split between premises, or multiple locations within a premises.
6. When individual digital channels are activated to provide the local loop link for services offered elsewhere in the Company's Tariffs, the regulations, rates, and charges specified in this Tariff will apply.
7. The total number of digital channels activated by the customer may not, at any time, exceed the total Digital Channel Capacity. Additionally, there are some types of service which require two DS0 channels to be combined. This restructuring of the channels within the DS1 or DS3 signal will reduce the normal quantity of channels available. The Company will notify the customer when the Digital Channel Capacity is altered by the types of services activated.
8. Central Office Channelization (component of Digital Channel Capacity) generally provides analog to digital conversion to permit individual exchange services and multijurisdictional dedicated services to be combined and transported over digital high capacity facilities. This channelization is also intended for use at Company locations where different high capacity digital network links terminate in the same central office and must be converted to individual analog or digital channels before the service links can be cross-connected.
9. Channelization on a customer's premises will be provided by the customer.

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D. REGULATIONS (Continued)

10. Joint provisioning of channelized services introduces joint responsibilities between the customer and the Company as specified following:

a. Responsibilities of the Company:

- (1) The Company will endeavor to activate its portion of joint service in a timely manner on the negotiated date to support installation requirements.
- (2) The Company will provide the customer with information regarding the type and the manufacturer of central office (C.O.) channelization equipment to be used in each application.
- (3) The Company will attempt to limit its selection of central office equipment to avoid operational and administrative difficulties associated with a multi-vendor central office environment.
- (4) The Company reserves the right to change its equipment vendors should equipment availability, price or technological advantages make such a change attractive or necessary.
- (5) The Company will notify the customer, generally a minimum of six months in advance, of any need to change its central office equipment to allow the customer sufficient time to respond, make any necessary changes, and schedule cooperative testing for cutover, if required.
- (6) Digital synchronization timing for CONTROLINK® Digital Channel Service will be provided by the Company.

b. Responsibilities of the Customer:

- (1) The customer must be prepared to activate his portion of joint service in a timely manner on the negotiated date, providing testing equipment and personnel to support installation requirements, as may be necessary.
- (2) The customer will be responsible for selecting his own equipment. Customer equipment must be compatible with the Company provided channelization at the central office.

c. Trouble resolutions:

- (1) The Company will assist the customer in resolving any installation or day-to-day channel service problems. However, the Company does not assure responsibility for the compatibility or suitability of the customer's equipment. Dispatches to customer premises caused by customer equipment troubles will result in a Premises Visit Charge as specified in Section 3 of Telephone-Pa. P.U.C. No. 4.

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D. REGULATIONS (Continued)

11. The technical specifications and standard network interfaces for DS1, DS3, and associated channelized services are stated in Section 7000 of the Verizon Technical Interface Reference Manual. Channelized DS1 service is available only with D4 channel bank equipment or compatible, equivalent equipment.
12. Emerging technology, such as low bit rate voice multiplexing techniques, may permit additional quantities of individual channels to be channelized on a single DS1 signal. Equipment providing this capability does not generally assure compatibility between different manufacturers. Some equipment may not be suitable for data transmission or tandem network line application. Rates, charges, and availability of this equipment will be negotiated with the customer under a Special Service Arrangement.
13. When a customer's CONTROLINK® Digital Channel Service is interrupted due to any cause other than the negligence or willful act of the customer or the failure of the facilities provided by the customer, a pro-rata adjustment of the monthly charges involved will be allowed automatically for the service and facilities rendered useless and inoperative by reason of the interruption during the time said interruption continues in excess of 24 hours from the time it is reported to or detected by the Company except as otherwise specified in this Tariff. The adjustment shall not be applicable for the time that the Company stands ready to repair the service and the customer does not provide access to the Company for such restoration work.

E. APPLICATION OF RATES

1. Five basic rate elements; Digital Channel Capacity, Digital Channel Activation, Service Activation, Multi-Jurisdiction IntraOffice and Multi-Jurisdiction InterOffice Channel are applicable to each CONTROLINK® Digital Channel Service.
2. The Digital Channel Capacity element provides for the transport between the end-user premises and the serving central office. Digital Channel Capacity is offered with 36, 60, or 84 month Term Payment Plan periods, after which service is provided on a month-to-month basis at the completed payment plan rates.
3. Service Activation charges are recurring charges and are applicable for each network service (switched or dedicated) required by the customer. Service Activation is offered on a month-to-month basis. For DS1 services, a DS1 Service Activation charge is applicable.
4. Monthly rates and charges as specified in F. following for Digital Channel Capacity apply according to the requested channel capacity. These rates apply regardless of the number of digital channels that are actually activated by the customer at a point in time.
5. Rates and charges specified in other Tariff sections for services such as Custom Calling Services, etc., are in addition to the monthly rates for CONTROLINK® Digital Channel Service.

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E. APPLICATION OF RATES (Continued)

6. The rates and charges for other services connected or extended beyond CONTROLINK® Digital Channel Service (i.e., off-premises stations and private lines, etc.) are in addition to the rates specified in this Tariff for the CONTROLINK® Digital Channel Service portion necessary to provide customer end-to-end service. This will also apply to Nonrecurring Charges and Service Connection Charges as specified elsewhere in the Company's Tariffs for activities involving the non-CONTROLINK® Digital Channel Service portion of the customer end-to-end service.
7. Digital Channel Capacity is available under Term Payment Plans only for rate periods of 36 months, 60 months, or 84 months. All elements of a Term Payment Plan will expire at the same time (be coterminous).
 - (a) The customer may order additional Digital Channel Capacity(s) during a Term Payment Plan period. The expiration date of the additional capacity(s) will be the same expiration date as the original Term Payment Plan period.
 - (b) Service Activation charges are available on a month-to-month basis.
8. At the expiration date of the customer's selected Term Payment Plan period, the customer may continue service under a new Term Payment Plan or on a month-to-month basis at the expired payment plan rates. Rates for service under these options will be the current rates as specified in this Tariff.
9. A Termination Liability Charge will be applicable should the customer discontinue service prior to the end of the Term Payment Plan. This is subject to the following exemptions:
 - a. No Termination Liability Charge will be applicable for the Digital Channel Capacity when the customer renegotiates a new Term Payment Plan for the same equipment or larger system at the same location for a period of time greater than the time remaining on the existing Term Payment Plan, subject to payment periods contained in E.7 above.
 - b. All CONTROLINK® Digital Channel Service Components are coterminous with the Digital Channel Capacity with which they are associated. Any activations subscribed to on a month-to-month basis have a minimum service period of one month and no associated Termination Liability Charge.
10. A Termination Liability Charge will be calculated based on the sum of the monthly payments remaining under the customer's Term Payment Plan, adjusted to the net present value at the date of termination, based upon a 12% APR discount. The Termination Liability Charge is due in full at the date of termination.
11. Should customers request interconnection between different CONTROLINK® Digital Channel Services provisioned in two or more different local serving offices, 1.544 Interoffice Channel Mileage as specified in Section 13 of Telephone-Pa. P.U.C. No. 4 will apply. This charge will apply in addition to CONTROLINK® Digital Channel Service charges for each premises for which CONTROLINK® Digital Channel Service is provisioned.

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F. RATES AND CHARGES

1. Nonrecurring Charges

a. Nonrecurring charges are one time charges that apply for specific work activity, (i.e., installation of service or change to an existing service). The types of nonrecurring charges that apply for Digital Channel Service are those listed below.

- (1) Service Establishment Charge - This charge applies to the initial Digital Channel Capacity(s) ordered by a customer for receiving, recording and processing the request for service. This charge includes processing orders to establish initial Digital Channel and Service Activations. This charge includes common centralized testing, coordination and accounting activities.
- (2) Service Change Charge - This charge is applied per Digital Channel service payment plan and is associated with a customer request for modifications to an existing CONTROLINK® Digital Channel Service. This would include activities such as but not limited to:
 - Change of associated channel assignment.
 - Additions of supplemental features.
 - Activate/Deactivate Digital Channel Activations.
 - Activate/Deactivate Service Activations.
- (3) Installation of CONTROLINK® Digital Channel Service - These are nonrecurring charges associated with the work performed by the Company in connection with the physical installation activities involving central office and/or outside plant facilities. These charges apply at initial installation and for additions to existing service. The appropriate Service Ordering Charge as specified in Section 3 of Telephone-Pa. P.U.C. No. 4 will also apply.
- (4) Service Ordering Charges:

	<u>Nonrecurring Charge</u>	<u>GSEC</u>
Service Establishment Charge, per Digital Channel Service	\$300.00	DCSSEC1
Service Change Charge, per Digital Channel Service, each (increment of 24 DS0 channels)	150.00	DCSSCC
Premises Visit Charge, per visit	*	

* Premises Visit Charge as specified in Section 3 of Telephone-Pa. P.U.C. No. 4 applies.

* Effective November 3, 2012, CONTROLINK Digital Channel Service is grandfathered and no longer available to new customers. Moves, additions or changes to subscribers' existing service are not permitted. Also effective November 3, 2012, CONTROLINK Digital Channel Service 36, 60 or 84-month Term plans are no longer available. At the end of the customers' term plan they will be converted to the shortest term and applicable rates available. CONTROLINK Digital Channel Service is still available for resale until February 16, 2013, on which date the foregoing terms shall be effective for resale.

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F. RATES AND CHARGES (Continued)

2. Digital Channel Capacity

The monthly and nonrecurring rates for Digital Channel Capacity without Activated Services are as follows:

a. Per System

<u>36 Months</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
1st DS1 Facility (24 DS0 Channels)	\$250.00	\$215.00
Each Additional DS1 Facility (24 DS0 Channels)	250.00	215.00
DS3 Facility (28 DS1 Channels) 1-3 DS3 Facilities, each facility	7,000.00	3,000.00
4 or more DS3 Facilities	ICB	ICB
<u>60 Months</u>		
1st DS1 Facility (24 DS0 Channels)	250.00	175.00
Each Additional DS1 Facility (24 DS0 Channels)	250.00	175.00
DS3 Facility (28 DS1 Channels) 1-3 DS3 Facilities, each facility	7,000.00	2,900.00
<u>84 Months</u>		
1st DS1 Facility (24 DS0 Channels)	250.00	155.00
Each Additional DS1 Facility (24 DS0 Channels)	250.00	155.00
DS3 Facility (28 DS1 Channels) 1-3 DS3 Facilities	7,000.00	2,600.00
4 or more DS3 Facilities	ICB	ICB

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F. RATES AND CHARGES (Continued)

3. Service Activations - Per Network Service

a. Analog Service

	<u>Monthly Rate</u>
Access Line/Trunk or CentraNet® Line - flat rate	\$32.00
Access Line/Trunk or CentraNet® Line - measured service	5.00
Switched Data Line	10.00
Foreign Exchange	17.25
Off-Premises Extension	17.25
Tie Line	17.25
Private Line	17.25
DIOD/DDID Additive	8.00

b. Digital Data Service

2.4 Kbps	30.00
4.8 Kbps	30.00
9.6 Kbps	30.00
19.2 Kbps	30.00
56 Kbps	30.00
64 Kbps	30.00

c. DS1 Service 1.544 Mbps 75.00

Notes:

1. Appropriate zone rates as specified in Section 1 of Telephone-Pa. P.U.C. No. 5 apply to both flat rate and measured service exchange Service Activation rates.
2. Appropriate local measured usage charges as specified in Section 1A of Tariff P.U.C. No. 5 will apply in addition to these rates for measured service exchange Service Activation rates.
3. Network Usage Charges as specified in Section 38 of Telephone-Pa. P.U.C. No. 4 are applicable in addition to the Switched Data Service Activation rates.
4. The DIOD/DDID Additive rate will apply in addition to all of the Analog Service rate elements in E.3.a. above, as well as the block of telephone of numbers rate as found in Section 35 of Telephone-Pa. P.U.C. No. 4.

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Section 13
2nd Revised Sheet 11
Cancels 1st Revised Sheet 11

CONTROLINK® DIGITAL CHANNEL SERVICE*

F. RATES AND CHARGES (Continued)

3. Service Activations - Per Network Service (Continued)

	<u>Monthly Rate</u>
(d) Multi-Jurisdiction IntraOffice Channel Service, per activation	\$4.00
(e) Multi-Jurisdictional InterOffice Channel Service, per activation	4.00

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