

Verizon North LLC

SWITCHED DATA SERVICE

A. GENERAL

1. Switched Data Service is a local exchange telecommunications service available only to customers served from suitably equipped central offices¹. This is a digital data transmission service which provides a data link between two Switched Data users via switched facilities. The network connection is established on a call-by-call basis.

B. CONDITIONS

1. In addition to the following conditions, appropriate regulations established in other tariffs of the Company will also apply.
2. The minimum billing for this service is one month.
3. The provision of Switched Data Service and associated features are subject to the availability of certain Central Office and outside plant facilities.
4. Switched Data Service is not available for resale of service.
5. Switched Data requires the use of customer provided data equipment which must be compatible with the Telephone Company's equipment and facilities. Grade of transmission is guaranteed only to the serving central office.
6. The Switched Data customer loop is subject to distance limitations as a result of digital signal power loss which are central office switch technology dependent. Switched Data Service will be provided where local loops do not exceed the following limitations:
 - a. On a DMS-100 central office switch: 42 dB loss at 80 kilohertz, equating to a range from approximately 12,000 feet to approximately 18,000 feet, depending on cable gauge and including customer wiring.
 - b. On a GTD-5 central office switch: 26 dB loss at 80 kilohertz, equating to a range from approximately 8,000 feet to approximately 15,000 feet, depending on cable gauge and including customer wiring.
 - c. On a non-ISDN equipped 5ESS central office switch: 42dB loss at 80 kilohertz, equating to a range 12,000 feet to approximately 14,000 feet, depending on cable gauge and including customer wiring.

Where the conditions in a., b. and c. above cannot be met, the customer must subscribe to Switched Data Channel Access or Switched Data Individual Line Loop Extension for Switched Data Service.

Where a customer's local serving central office is not capable of providing Switched Data Service the Company will determine the nearest capable central office. Interoffice High Capacity DS1 (1.544 Mbps) mileage will apply from the non-capable central office to the central office capable of providing Switched Data Service at the rates specified in Section 13 of Telephone-Pa. P.U.C. No. 4 tariff and Section 7 of Telephone-Pa. P.U.C. No. 6 tariff for High Capacity DS1 (1.544 Mbps) Facilities. In this situation, the customer will utilize the dialing plan associated with the central office that provides the digital dial tone. (NOTE: The DS1 Special Transport Termination charge is not to be applied in conjunction with the DS1 Special Transport Per Airline Mileage charge.)

7. Customers utilizing the voice option of this service may subscribe to Custom Calling features. The Switched Data features contained in this tariff are to be used exclusively with the Switched Data Service.

¹ Switched Data Service is offered where facilities permit to customers served in exchanges listed in Section 2 of Telephone-Pa. P.U.C. No. 4 tariff and listed in Section 1 of the Telephone-Pa. P.U.C. No. 6 tariff.

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B. CONDITIONS (Cont'd)

8. Access to Switched Data Service is obtained through a dial-up connection via the public switched telephone network using the standard 7 through 10 digit methods. Origination of calls for 800, 900, 976, 0- (IntraLATA) and 0+ (IntraLATA) types of calls is limited to voice calls only. These types of calls will be provided with the Voice Option feature of Switched Data Service when requested by the customer.
9. The Telephone Company makes no guarantee and assumes no liability for the accuracy, performance or non-performance of the Switched Data Service.
10. Customer Premises Channelization, a component of Switched Data Channel Access, may be provided by the customer or the Company. When the Company provides the channelization equipment at a customer's premises, it is not necessary for the customer to provide channel access cards for associated channels. The termination of this channelization will be in a single equipment location on a customer's premises. The customer must provide suitable floor space, controlled environment, and a source of non-switched 120 volt, 60 HZ AC power to support this service.
11. Switched Data Individual Loop Extension is required where:
 - customers are restricted by technical requirements as specified herein.
 - a customer's local serving central office is not capable of providing Switched Data. The Company will determine the nearest designated central office capable of providing Switched Data Service. Interoffice digital data service (DDS) mileage will apply from the noncapable central office to the central office capable of providing Switched Data at the rates shown in Section 5, Paragraphs 5.6.3 and 5.7.15 of Telephone-Pa. P.U.C. No. 9 tariff. In this situation, the dialing plan associated with the central office that will be providing the Switched Data Service to the customer will be utilized.
12. Directory Listings for Switched Data Service will be provided upon customer request in accordance with Section 10 of this Tariff.
13. Switched Data Service is not eligible for Vacation Service Rates as set forth in Section 24 of Telephone-Pa. P.U.C. No. 4 tariff and Section 17 of Telephone-Pa. P.U.C. No. 6 tariff.

C. DESCRIPTION

Switched Data High Speed and Low Speed

Low Speed Switched Data - Supports 300, 1200, 2400, 4800, 9600 and 19,200 bits per second asynchronous full or half duplex connections and 1200, 2400, 4800, 9600 and 19,200 bits per second synchronous full or half duplex connections.

High Speed Switched Data - Supports 48,000, 56,000, and 64,000 bits per second synchronous full duplex connections.

Switched Data Individual Line Loop Extension - An extended loop capability which transports Switched Data usage between the customer premises and the local serving central office. Each Switched Data Individual Line Loop Extension provides one channel which supports data transmission only. Each channel can transmit up to 56,000 bits per second, or up to 64,000 bits per second depending on technology.

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C. DESCRIPTION (Cont'd)

Customer Premises Termination - Provides for termination at the customer's premises. The termination is provided per access (DS1 or 24 channels).

Customer Premises Channelization - Provides access to the DS1 time slot within the DS1 signal associated with a specific Digital Channel Service. Customer Premises Channelization utilizes D4 type channel bank equipment.

Single Line Feature:

Data Line Security - This feature prevents a data call from being interrupted by override tones, such as a call waiting tone, or other test or busy verification tests that would interrupt the flow of data.

CentraNet® Line Features (Includes Data Line Security):

Intercom Dialing - Intercom dialing equates to intrasystem or station-to-station dialing. This feature allows customer group stations to complete calls to other stations without the assistance of an attendant, by dialing a 2 through 7 digit number. This feature is applicable to CentraNet® customer groups and is restricted to the serving wire center only.

Direct Dialing - This feature allows calls to be placed between Switched Data lines within a customer group and Switched Data lines outside of the customer group without the assistance of an attendant. This feature is applicable to CentraNet® customer groups only.

Optional Features:

Data Direct Connect - This feature provides an automatic connection between a Switched Data calling line that goes off-hook and a predetermined location.

Data Closed User Group - This feature, restricted to CentraNet® lines only, provides partitioning of Switched Data lines into groups where calls within such a group are allowed, but calls between such groups are denied.

Voice Option - This feature allows simultaneous voice and data communications over a single Switched Data line. This feature is available where technical capabilities exist. This feature is not available with Switched Data Channel Access or Switched Data Individual Line Loop Extension.

Optional Feature Packages¹:

Feature Package Data 1000 includes:

Data Individual Speed Call-Short List - The use of the Data Individual Speed Call-Short List is limited to an individual Switched Data line. A short list consists of a maximum of eight (8) stored numbers. This feature is not available with Switched Data Channel Access or Switched Data Individual Line Loop Extension.

Data Call Forward (All/Busy²/No Answer²) - This feature allows a customer to have incoming calls to a Switched Data line automatically forwarded to a predetermined number. Data Call Forward consists of three variations as follows: all calls, busy and no answer. This feature is not available with Switched Data Channel Access or Switched Data Individual Line Loop Extension.

¹ Optional Feature Packages are available for Single Line and CentraNet® Line applications. Some features will function only with CentraNet® Lines.

² Effective August 21, 2016, Call Forwarding – Busy and Call Forwarding – No Answer are no longer available to new business customers. Existing business customers as of August 21, 2016, may retain these services at existing locations. Additions, rearrangements and moves are not permitted. These services are still available for resale until October 17, 2016, on which date the foregoing terms shall be effective for resale.

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SWITCHED DATA SERVICE

C. DESCRIPTION (Cont'd)

Optional Feature Packages¹: (Cont'd)

Feature Package Data 1000 includes: (Cont'd)

Data Last Number Redial - This feature enables a subscriber to redial the last called number by depressing a single key rather than the entire number. This feature is not available with Switched Data Channel Access or Switched Data Individual Line Loop Extension.

Data Toll Restriction - This feature will restrict toll calls from being placed over Switched Data lines.

Data Sequential Hunt Group - This feature assigns a pilot directory number to the hunt group. Hunting is sequential, i.e., starting at the first line assigned to the pilot directory number and ending at the last line.

Feature Package Data 2000 - This package contains the features, with the exception of Data Individual Speed Call-Short List, included in Feature Package Data 1000, and:

Data Call Back - This feature allows a Switched Data user encountering a busy station to be notified when the busy station becomes idle and to automatically establish the call. This feature is available with CentraNet® intercom calling only. This feature is not available with Switched Data Channel Access or Switched Data Individual Line Loop Extension.

Data Saved Number Redial - This feature allows a customer to dial a saved number by depressing a single key rather than the entire number. This feature is not available with Switched Data Channel Access or Switched Data Individual Line Loop Extension.

Data Circular Hunting - This feature assigns a pilot directory number to the hunt group. Hunting starts after the first idle line found by the previous hunt and continues until the hunting starting point is reached. This feature is not available with Switched Data Channel Access or Switched Data Individual Line Loop Extension.

Data Group Speed Calling - This feature, restricted to CentraNet® lines, provides storage for an abbreviated numbers list which is shared for use by a group of data lines. The list may be updated by a service order or by a user designated as the controller. Only the controller can add to, change or delete numbers from the list. Other lines with access to this list are restricted. This feature is not available with Switched Data Channel Access or Switched Data Individual Line Loop Extension.

Data Individual Speed Call-Long List - The use of the Data Individual Speed Call-Long List is limited to an individual Switched Data line. A long list consists of a maximum of thirty (30) stored numbers. This feature is not available with Switched Data Channel Access or Switched Data Individual Line Loop Extension.

¹ Optional Feature Packages are available for Single Line and CentraNet® Line applications. Some features will function only with CentraNet® Lines.

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C. DESCRIPTION (Cont'd)

Definitions:

Asynchronous - A method of transmitting data in which each transmitted character is preceded by a start bit and followed by a stop bit, thus permitting the interval between characters to vary.

Bit - A binary digit. The smallest unit of information in the binary system of notation.

Bits Per Second - The number of bits transmitted per second. A measure of the speed of transmission of digital information.

Customer Group - defines a set of stations that have common features and system parameters including abbreviated dialing.

Digital - Information which is expressed in discrete or noncontinuous form.

Full Duplex - Type of communication that supports the transmission of signals in both directions simultaneously.

Half Duplex - Type of communication that supports transmission of signals in both directions, but is not capable of simultaneous and independent transmission and reception.

Hunting - A search through a group of numbers until an idle station is found or the last number of the group is reached.

Synchronous - A method of transmitting data in which the data characters and bits are transmitted at a fixed rate with the transmitter and receiver synchronized, eliminating the need for individual start bits and stop bits.

SWITCHED DATA SERVICE

D. RATES AND CHARGES

1. The following rates are in addition to the rates and charges for other associated services and applicable service charges shown elsewhere in this Tariff and other Company Tariffs. The rate elements applicable for Switched Data Service are:
 - a. Switched Data Service Access Line Monthly Rate (Low Speed, High Speed, Channel Access or Individual Line Loop Extension)
 - b. Network Usage
 - c. Service Connection Charge
 - d. Optional Features/Feature Packages
 - e. Software Reconfiguration Charge
 - f. Customer Premises Termination and Channelization (Optional)
2. Switched Data Customer line rates are determined by the total number of Low Speed and/or High Speed lines requested per customer (i.e., if a CentraNet® customer requests 55 Low Speed lines and 25 High Speed lines, all Low Speed lines will be billed at the "50-100" rate and all High Speed lines will be billed at the "3-49" rate).

	<u>Monthly Rate</u>	<u>Nonrecurring Charge²</u>
a. Switched Data High Speed and Low Speed Customer Line ¹		
(1) Low Speed Access		
Single Line, per line	\$ 37.00	\$ 50.00
CentraNet® Line		
3-49 Lines, each	40.00	50.00
50-100 Lines, each	37.00	50.00
101 Lines and above, each.....	34.00	50.00
(2) High Speed Access		
Single Line, per line	47.00	50.00
CentraNet® Line		
3-49 Lines, each	50.00	50.00
50-100 Lines, each	44.00	50.00
101 Lines and above, each.....	37.00	50.00

¹ The Local Loop Charge is included in the Switched Data Line Rate.

² The Nonrecurring Charge applies in lieu of the Access Line Connection Charge as shown in Section 3 of Telephone-Pa. P.U.C. No. 4 tariff and Telephone-Pa. P.U.C. No. 6 tariff.

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D. RATES AND CHARGES (Cont'd)

2. (Cont'd)

	<u>Monthly Rate</u>	<u>Nonrecurring Charge¹</u>
b. Switched Data Individual Line Loop Extension		
(1) Switched Data Individual Line Loop Extension Access		
Single Line.....	\$ 52.00	\$ 50.00
CentraNet® Line	52.00	50.00
(2) Switched Data Individual Line Loop Extension Channel		
Single Line.....	10.00	50.00
CentraNet® Line	13.00	50.00
c. Switched Data Channel Access		
(1) Switched Data Channel Access ² (24 Channels DS1 Facility).....		
(2) Central Office Termination Per Access Arrangement.....	150.00	125.00
(3) Central Office Channelization Per Channel Activated.....	5.00	NA
(4) Customer Premise Termination (Optional) Per Access Arrangement.....	100.00	75.00
(5) Customer Premise Channelization (Optional) Per Channel Activated.....	30.00	20.00
d. Network Usage ³		

¹ The Nonrecurring Charge applies in lieu of the Access Line Connection Charge as shown in Section 3 of Telephone-Pa. P.U.C. No. 4 tariff and Telephone-Pa. P.U.C. No 6 tariff.

² Appropriate charges (Monthly Rates and Nonrecurring Charges) apply as set forth in Section 13 of Telephone-Pa. P.U.C. No. 4 tariff and Section 7 of Telephone-Pa. P.U.C. No. 6 tariff for High Capacity Digital DS1 (1.544 Mbps) Facilities and Mileage.

³ Network Usage Charges apply to all local data calls except for CentraNet® intercom calls. The applicable charges are the Message Connection Rate and the Minutes of Use Rate as set forth in Section 2A of Telephone-Pa. P.U.C. No. 6 tariff and Tariff Telephone-Pa. P.U.C. No. 5, Section 1A. Billing is for actual usage and is not subject to a maximum monthly recurring charge.

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D. RATES AND CHARGES (Cont'd)

2. (Cont'd)

	Monthly Rate
e. Optional Features ¹	
(1) Data Direct Connect, each line	\$ 1.00
(2) Data Closed User Group, each line	1.00
(3) Voice Option ²	
Single Line, Flat Rate, each	8.00
Single Line, USS Rate, each	5.00
CentraNet® Line, each	5.00
f. Feature Packages ¹	
(1) Feature Package Data 1000 (includes Data Individual Speed Call-Short List, Data Call Forward, Data Last Number Redial, Data Toll Restriction, and Data Sequential Hunt Group), each line	3.00
(2) Feature Package Data 2000 (includes Data Call Forward, Data Last Number Redial, Data Toll Restriction, Data Sequential Hunt Group, Data Call Back, Data Saved Number Redial, Data Circular Hunting, Data Group Speed Calling, and Data Individual Speed Call-Long List), each line	5.00
	Rate Per Occurrence
g. Software Reconfiguration Charge	\$12.75
h. The Software Reconfiguration Charge is applicable for any software changes that are required to make changes for Optional Features (e.g., changing Speed Call Lists, Data Direct Connection Destination, etc.) or Feature Packages. The Subsequent Service Ordering Charge as specified in Section 3 of Telephone-Pa. P.U.C. No. 4 tariff and Telephone-Pa. P.U.C. No. 6 tariff is also applicable.	

¹ A Subsequent Service Order Charge is applicable for the addition of optional features and feature packages.

² With this option, local voice calls default to Flat Rate or Usage Sensitive Service consistent with the customer's normal basic service. Charges for local USS voice calls, as set forth in Section 2A of Telephone-Pa. P.U.C. No. 6 tariff and 1A of Pa. P.U.C. No. 5, are applicable.