1. SUPERPATH® 1.544 Mbps Digital Service
1.1 General

Rates and charges for services explained herein are contained in Part F, Section 3. Service charges referred to herein are explained in Part A, Section 3 and contained in Part F, Section 1.

1.1.1 Definitions

Bit—The smallest unit of information in the binary system of notation.

Channel Service Unit Functionality—Equipment which performs the function of proper termination of a circuit, regeneration of signals, recognition and correction of signal format errors, and remote loopback.

Confirmed Due Date—The date on which work activity is scheduled to be completed by Verizon and for which the service is available for use by the customer. The confirmed due date is provided by Verizon to the customer once the availability of Verizon facilities has been authorized.

DS1 to Digital Multiplexer—A service provided by Verizon at central offices, designated as multiplexing hubs, that converts a 1.544 Mpbs channel to 24 channels for use with digital private line service.

DS1 to Voice Multiplexer—A service provided by Verizon at central offices, designated as multiplexing hubs, that converts a 1.544 Mpbs channel to 24 channels for use with voice grade service.

Intermediate Hub—A wire center, that provides multiplexing which can serve itself and one or more wire centers within the Local Access and Transport Area (LATA). In this intermediate hub (wire center) a 1.544 Mpbs channel can be multiplexed and the individual channels terminated at customer designated premises located within the local serving area of that wire center and/or individual channels can be extended through any designated wire center(s) subtending the intermediate hub within the LATA to terminate at customer designated premises located within the local serving area of each wire center.

Interoffice Channel—A 1.544 Mbps path for digital transmission between central offices.

Local Distribution Channel—A 1.544 Mbps path for digital transmission between the customer's premises and the serving central office.

Multiplexing—The act of combining a number of individual message circuits for transmission over a common transmission path.

Multiplexing Hub—A Verizon designated central office at which the multiplexing functions are performed.

Served Direct Intraexchange Channel—A path for digital transmission between the customer's premises located on the same cable feeder route, less than 3,500 cable feet apart, and having no central office connection. Served direct intraexchange channels are no longer available. Service arrangements are furnished to existing customers at present locations only in the same or lesser quantities.

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1.1 General

1.1.1	Definitions
	Terminus Hub—A wire center in which a 1.544 Mbps channel can be multiplexed to 24 channels. A terminus hub serves only customers in the wire center in which the multiplexing is performed.

1.1.2	Description
A.	Superpath is provided on a two point basis only between the following locations.
1.	Customer designated premises
2.	A customer designated premises and a Verizon designated central office
3.	Verizon designated central offices.
B.	Superpath is provided only where facilities are available and is subject to the technical limitations of the digital equipment used by Verizon as set forth in PUB 62411 and TR–NPL–000054.
C.	Superpath consists of two point digital channels and equipment which provide for simultaneous two-way transmission of serial, bipolar, return to zero, digital signals at a transmission speed of 1.544 Mpbs.
D.	Superpath is designed to provide an average performance of at least 98.75% error-free seconds of transmission measured over a continuous 24 hour period.
E.	Superpath is furnished on a full-time basis, 24 hours a day, seven days a week.
F.	Central office multiplexing may be provided from suitable equipped multiplexing hubs. The customer is responsible for the assignment of individual channels within the multiplexer and for maintaining records of those assignments. Customer provided multiplexing equipment must conform with the electrical requirements for channel units specified in PUB 43801 and CB 119.

1.1.3	Service Functions
A.	**General—** Service functions are optional features or arrangements that are available for use with Superpath. The central office multiplexing capability is provided by a central office multiplexer at designated multiplexing hubs which converts a 1.544 Mpbs channel to 24 channels for use with voice grade services and/or analog data services or to 24 channels for use with digital services.

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1.1.3	Service Functions
B.	**Central Office Multiplexing DS1 to Voice** allows for up to 24 individual voice grade or analog data private lines on a channelized basis for use with a 1.544 Mbps circuit. This function is offered for the same customer at multiplexing hubs. The types of voice grade private lines provided are as follows:
1.	Private line voice (PLT)
2.	Private line analog data
3.	PBX stations off-premises (SOPs)
4.	PBX tie lines
5.	Centrex tie lines and SOPs
6.	Foreign exchange
C.	**Central Office Multiplexing DS1 to Digital** allows for up to 24 individual digital private lines to be derived from a 1.544 Mbps circuit. This function is offered for the same customer at multiplexing hubs.
D.	**Clear Channel Capability (CCC)** provides a bipolar with eight zero substitution (B8ZS) encoding technique that allows a customer to transport 1.536 Mbps information rate signals over a Superpath 1.544 circuit with no constraint on the quantity or sequence of ones (mark) and zero (space) bits. This arrangement allows customers to derive 64 kbps clear channels. This service is provided only on Superpath 1.544 between two customer designated premises and is subject to the availability of facilities. This arrangement requires that customer provided multiplexing equipment to be compatible with the B8ZS line code as specified in TR–NPL–000054 and PUB 62508.

1. SUPERPATH® 1.544 Mbps Digital Service
1.2 Responsibility of Verizon

1.2.1	Service Provisioning Warranty
A.	Verizon assures that when a customer orders Superpath, service will be installed and available for customer use no later than the confirmed due date. The failure of Verizon to meet this confirmed due date will result in the credit of all applicable Superpath Service and Equipment (S&E) charges for the local distribution channel, and central office multiplexer associated with the missed commitment. The S&E charges will be credited at the rate at which they are billed.
B.	The following service configurations are subject to the provisioning warranty.
1.	Superpath provided on a two point basis between customer designated premises
2.	Superpath provided between a customer designated premises and a Verizon hub where central office multiplexing is performed. The derived services associated with central office multiplexing are not included in the warranty.
C.	The service provisioning warranty does not apply under the following situations.
1.	When the customer requests an expedited due date
2.	When other telephone companies are involved in the installation
3.	When the customer premises is inaccessible
4.	When the customer changes interface requirements
5.	When the customer is not ready to accept service
6.	When building facilities are not ready (including space, cable support structures, building risers and entrance facilities to be provided by the building owner or his subcontracted vendors)
7.	When the customer orders termination beyond the network interface
8.	When the customer requests service rearrangements; or moves within the same building
9.	When special construction is required to provision service
10.	When the delay is caused by work stoppage, civil disturbances, criminal actions; or by fire, flooding or other occurrences attributed to an Act of God

1. SUPERPATH® 1.544 Mbps Digital Service
1.2 Responsibility of Verizon

1.2.2	Interruption of Service
A.	When service is interrupted for 30 minutes or more a credit allowance will be made for the portion of the service which is affected, provided that the interruption is brought to the attention of Verizon within ten days. For the purpose of determining the amount of allowance, every month is considered to have 30 days.
1.	Interruptions are credited to the customer at the proportionate monthly contract charge in half hour multiples for each half hour or major fraction thereof.
a.	Interruptions in 30 minutes or more but less than two hours are credited at 1/1440th per 30 minute period or fraction.
b.	Interruptions of two hours or more are credited at 35% of the applicable monthly charge, or 1/1440th per 30 minute period whichever is higher.
2.	The total credit allowance in any one billing period cannot exceed 100% of the customer's monthly charge for service.
B.	No credit allowance will be made for the following interruptions to service.
1.	Service interruptions of less than 30 minutes
2.	Service interruptions caused by the negligence of the customer or authorized user
3.	Service interruptions resulting from the failure of equipment provided by the customer or authorized user
4.	Service interruptions which continue due to the failure of the customer to authorize replacement of any element of special construction. The period during which no credit allowance will be made begins on the seventh day after the customer receives Verizon's notification of the need for replacement and ends on the day after Verizon receives the customer's authorization for replacement.
5.	During periods when the customer elects not to release the servicer for testing and/or repair
6.	During periods when the customer or user has released the service for rearrangement purposes or for the implementation of a customer order.

1. SUPERPATH® 1.544 Mbps Digital Service
1.3 Regulations

1.3.1	Minimum Period
A.	The minimum service period is three months.

1.3.2	Determination of Mileage
A.	Mileage used to determine the rate for a local distribution channel is the airline distance measured, in increments of 1/2 mile (a fractional 1/2 mile increment being considered as a full 1/2 mile increment), directly between the customer's premises and the serving central offices.
B.	Mileage used to determine the rate for a 1.544 Mbps interoffice channel is the airline distance measured, in one mile increments, directly between the serving central offices, between a serving central office and Verizon hub, or between Verizon hubs.

1.3.3	Application of Rates and Charges
A.	**Service and Equipment** charges apply in addition to the monthly rates for service.
B.	**Interoffice Channels—** For basic service interoffice channels, when the interoffice channel is installed at the same time as the associated local distribution channel, the S&E charge applies, per interoffice channel.
1.	For basic service interoffice channels installed without an associated local distribution channel, in addition to the S&E charge and monthly rate, a second S&E charge will apply. The second S&E charge is an amount that is different than the standard S&E charge, and it will be incurred per interoffice channel.
C.	**Optional Features**
1.	For central office multiplexing DS1 to Voice, rates and charges for voice grade connections from the central office multiplexer for Private Line Series 2000 Types 2001A and 2001B include signaling arrangements. Rates and charges for conditioning for Private Line Series 3000 analog data voice grade connections are as explained in Part B, Section 2.
2.	For central office multiplexing DS1 to Voice rates and charges are applicable for voice grade intraoffice connections between the central office multiplexer and Centrex switching equipment or foreign exchange service in the same serving central office.
3.	Rates and charge for voice grade connections from the central office multiplexer to a customer premises or a foreign exchange service in a different serving central office are provided as Private Line Series 2000 and 3000 channels.
4.	For central office multiplexing DS1 to Digital, rates and charges apply for digital private line connections from the central office multiplexer to a customer premises.
D.	**Premises Work** charges apply in addition to the basic service rates and charges.

1. SUPERPATH® 1.544 Mbps Digital Service
1.3 Regulations

1.3.4	Variable Term Payment Plan (VTPP)
A.	The monthly rates and S&E charges for Superpath are offered under the VTPP as described herein and in Part A, Section 1. The VTPP monthly rates and S&E charges are payable over the following Optional Payment Periods (OPP) as selected by the customer. The month-to-month, 36 months or 60 months OPPs are available to all Superpath customers. Only the local distribution channel, intra central office distribution channel and central office multiplexing and interoffice channels are eligible for the OPPs of 36 month or 60 months.
1.	When a customer selects the S&E charge 36 or 60 month OPP, their S&E reflect a 50% reduction. The total number of S&E charges included in an OPP may not exceed the total number of local distribution channels included in the OPP.
2.	The OPP selected for the S&E charges must be the same as the OPP established for monthly rates.
3.	An OPP may not be established only for S&E charges. The monthly rates for the channels which incurred the charges must also be included.
B.	**Termination Liability—** If a customer terminates service or cancels an OPP before the expiration of a commitment period the customer is subject to a termination liability charge. If a customer terminates service prior to a minimum service period, the minimum service period charges also apply, in addition to the discounted monthly rates for each local distribution channel and for the interoffice channels. The termination charges applicable to Superpath are dependent upon the payment period selected by the customer (refer to Exhibit 1.3.4-1).
1.	When a customer disconnects some or all discounted channel in order to replace them with other Verizon provided channels the appropriate minimum service period charges would apply. The termination liability does not apply provided that the orders for the new channels and the disconnect of the existing channels are placed with Verizon at the same time, the new channels have an equal or higher channel capacity than the disconnected channels and the term plan of the new service is of equal or greater length than the remaining commitment period of the service being disconnected.
2.	A customer may, at any time prior to the expiration of the selected payment period for an existing OPP, change to an OPP with a longer payment period at the then effective discount. No termination liability charges will apply for any services extended under the longer commitment period. The monthly rates applicable for the longer commitment period will apply effective with the next bill day following the request for the change.
C.	**Transfer of Service** will not be provided.

1. SUPERPATH® 1.544 Mbps Digital Service
1.3 Regulations

1.3.4 Variable Term Payment Plan (VTPP)

Exhibit 1.3.4-1
VTPP Termination Charges by Payment Period–Monthly Rates

Payment Period	Termination Charges
Month-to-Month	None
36 Months	50% of the present value of the remaining monthly payments
60 Months	50% of the present value of the remaining monthly payments

1. SUPERPATH® 1.544 Mbps Digital Service
1.3 Regulations

1.3.4 Variable Term Payment Plan (VTPP)

Exhibit 1.3.4-2
VTPP Termination Charges by Payment Period–S&E Charges

Payment Period	Termination Charges
36 Months	100% of the present value of the remaining monthly payments
60 Months	100% of the present value of the remaining monthly payments

1.3.5 SUPERPATH® 1.544 Mbps Digital Service - DS0 to DS1 Upgrade

DS0 to DS1 Upgrade is only available to existing Verizon customers who are upgrading an existing DS0 service to a SUPERPATH® 1.544 Mbps Digital Service. Except as otherwise provided in this Section 1.3.5., the regulations applicable in sections 1.1.1 – 1.3., of this Section apply. Customers that purchase this service cannot make moves or adds subsequent to the initial upgrade as described in A.2.b. and continue to receive the special pricing.

A. Description

1. The 1.544 Mbps channel is provided as a single, flat rated, transport service. Verizon Central Office (CO) multiplexing and alternate serving wire center options are not available for SUPERPATH® 1.544 Mbps Digital Service - DS0 to DS1 Upgrades.

2. SUPERPATH® 1.544 Mbps Digital Service - DS0 to DS1 Upgrade is provided on a two point basis only between a customer designated premises and customer designated premises.

a. Customer premise to wire center is not permitted. DS1 as a derived circuit from a higher level facility is not permitted.

b. At least one end point of the DS1 Upgrade must be the same as one of the existing end points of the disconnected DS0 service.

3. Superpath1.544 Mbps Digital Service – DS0 to DS1 upgrade requires a one for one replacement; one DS0 circuit for one DS1 circuit and disconnection of the existing DS0 service.

B. Minimum Period — The minimum service period is one month.

C. Application of Rates and Charges

1. Service Charges apply as appropriate.

2. Flat rate transport — The service is provided as flat rate, transport from premise to premise. Inclusive of this flat rate, the customer will receive a channel termination at each designated customer location -- for a total of two channel terminations -- as well as any Inter-Office Facility Mileage which may apply.