

## ACCESS SERVICE

17. Packet Switching Access Service

## MAPPING OF BASIC SERVICE ELEMENTS

The following is a list of the Bell Atlantic Telephone Companies Open Network Architecture (ONA) Packet Switched Service optional features which were presented as Basic Service Elements (BSEs) in the NYNEX ONA Plan. This list provides a mapping from the industry standard feature name to the feature name utilized in this tariff.

<u>Industry Standard</u>	<u>Bell Atlantic Telephone Companies</u>
Call Detail Recording Reports	Call Detail
Call Redirection	Call Redirection
Closer User Groups	Closed User Groups
Incoming Calls Barred	Incoming Calls Barred
Outgoing Calls Barred	Outgoing Calls Barred
Default Window Size	Default Window Size
Direct Call	Auto-Connect NUI
Fast Select Acceptance	Fast Select Accept
Fast Select Request	Fast Select Request
Hunt Groups	Hunting

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17. Packet Switching Access Service (Cont'd)

## MAPPING OF BASIC SERVICE ELEMENTS (Cont'd)

<u>Industry Standard:</u>	<u>Bell Atlantic Telephone Companies</u>
Logical Channel Layout	1 Way Logical Channel Incoming
Logical Channel Layout	1 Way Logical Channel Outgoing
Logical Channels	Additional Logical Channels
N/A	Default Packet Size
N/A	Network user Identifier (NUI) Code
Permanent Virtual Circuit	Permanent Virtual Circuit
Preselection for Data Services	RPOA Preselection
Reverse Charge Acceptance	Reverse Charge Acceptance
Reverse Charge Request Option	Reverse Charge Request

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17. Packet Switching Access Service17.1 General

Packet Switching Access Service provides for the transport of relatively short bursts of data over a packet network. The data are separated into discrete segments called packets for high speed transmission through a packet network. The Telephone Company offers the following types of Packet Switching Access Services:

INFOPATH packet switching service

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17.1.1 Description(A) Packet Network Components

A packet network consists of three major components which are Access Concentrators, Packet Switches and Network Facilities. Access Concentrators aggregate traffic from multiple customers onto the packet network. Packet Switches perform routing and interfacing functions for the packet network. The Network Facilities interconnect the Access Concentrators and Packet Switches enabling packets to be transmitted throughout the packet network.

(B) Network Access

- (1) The INFOPATH packet switching service network is accessed through a port on either an access concentrator or a packet switch. Customers with low to medium throughput transmission requirements access the network through a port on an access concentrator at data rates of up to 9.6 kilobits per second (kbps) in New England Telephone and up to 2.4 kbps in New York Telephone. Customers with high throughput transmission requirements access the network through a port on a packet switch at data rates of 9.6 or 56 kbps.

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17. Packet Switching Access Service (Cont'd)17.1 General (Cont'd)17.1.1 Description (Cont'd)(C) Network Address

Each port includes one network address which is a ten-digit Data Terminal Number (DIN) that identifies the logical channels of that port.

For INFOPATH packet switching service, additional network addresses may be ordered under the Multiple Network Address Optional Feature as specified in 17.2.1 following. In this case, the first network address established per port will be designated as the primary network address. Additional network addresses at the same customer designated premises will hunt with the primary network address. Hunting enables the customer to achieve maximum call connection efficiency.

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17. Packet Switching Access Service (Cont'd)17.1 General (Cont'd)17.1.1 Description (Cont'd)(D) Protocol(1) INFOPATH Packet Switching Service

The INFOPATH packet switching service network is compatible with asynchronous, X.25 and X.75 protocol transmission. All packets are interleaved (statistically multiplexed) on the network facilities as they are transmitted. The Telephone Company will provide a Default Packet Size of 128 octets for both directions of transmission. To ensure compatibility with Data Terminal Equipment (DTE), the customer can specify a Packet Size of 128 or 256 octets for one or both directions of transmissions.

Routing and control information (packet header) is automatically inserted at the beginning of each packet, and error detection information (packet trailer) is automatically inserted at the end of each packet. Complete with this information, the entire packet is routed through the network to its intended destination.

Error checking is performed on each packet as it is transmitted through the network. If a packet and/or format error is detected, the sending equipment is automatically instructed to retransmit the message. A message may consist of a single packet or multiple packets.

Window Size is the maximum number of unacknowledged packets allowed without a confirmation of receipt. The Telephone Company will provide a Default Window Size of two packets for both directions of transmission. To ensure compatibility with DTE, the customer may specify a Window Size from two up to seven packets for one of both directions of transmission.

Customers must provide Data Terminal Equipment (DTE) in conformance with the interface specifications as described in Technical Reference NTR-74250 (X.25 Protocol), TR-TSY-000461 (X.75 Protocol) and NTR-74252 (Asynchronous Protocol).

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17. Packet Switching Access Service (Cont'd)

17.1 General (Cont'd)

17.1.1 Description (Cont'd)

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(E) Types of Service Configurations

There are two types of configurations for Packet Switching Access Services: Switched Virtual Circuit (SVC) Permanent Virtual Circuit (PVC). For INFOPATH packet switching service, each configuration must be designated as having one-way logical channel incoming, one-way logical channel outgoing or two-way calling.

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17. Packet Switching Access Service (Cont'd)17.1 General (Cont'd)17.1.1 Description (Cont'd)(E) Types of Service Configurations (Cont'd)(1) Switched Virtual Circuit (SVC)

Switched Virtual Circuit configurations are standard for INFOPATH packet switching service and allow the customer to establish a call to another point on the network by utilizing a temporary switched data connection. The user inputs the network address of the Data Terminal Equipment (DTE being called along with other information required for the call. The network processes a call set-up packet to the called network address. After the call is connected and accepted by called party, a call-connected packet is sent to the calling DTE indicating that call is connected. If for any reason the call cannot be connected, a message is sent to the calling DTE identifying the reason.

(2) Permanent Virtual Circuit (PVC)

Permanent Virtual Circuit configurations are an option for INFOPATH packet switching service. PVCs provide the electronic equivalent of a two-point private line between two ports which must be specified by their network addresses at the time of subscription. While no physical circuits are dedicated, the two network addresses are connected electronically to form a PVC. No call establishment (i.e. call set-up packet) is required for a PVC. For customers subscribing to INFOPATH packet switching service, the PVC option is specified in 17.2.1 following.

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17. Packet Switching Access Service (Cont'd)

17.1 General (Cont'd)

17.1.2 Regulations

(A) The regulations specified herein are in addition to other applicable regulations specified in other sections of this tariff.

(B) Packet Switching Access Service will be furnished only when the customer has subscribed to an adequate number of port connections or logical channels as established by the Company to accommodate the service requested, i.e., originating, terminating or two-way calling, without impairing the network.

(C) Service Availability

All rates and charges set forth provide for the furnishing of Packet Switching Access Services where suitable facilities are available as specified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, unless otherwise specified herein.

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(D) Construction of Facilities

The regulations, rate and charges for special construction are set forth in THE BELL ATLANTIC TELEPHONE COMPANIES TARIFF F.C.C. NO. 13.

(E) Failure of Service

For a failure of a Packet Switching Access Service port, credit will be applied according to Section 2., Paragraph 2.4.4(B)(1) and (4) as appropriate.

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17. Packet Switching Access Service (Cont'd)

17.1 General (Cont'd)

17.1.2 Regulations (Cont'd)

(F) Minimum Period and Fractional Rates and Charges

The minimum period for which INFOPATH packet switching service is furnished and for which charges are applicable is specified in Section 2. of this tariff. (C)  
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(G) Cancellation or Change of Application Prior to Establishment of Service

When an application for service is canceled or changed in whole or in part by, or on behalf of, the applicant prior to completion of construction and installation, the General Regulations contained in Section 5., Paragraphs 5.2.2 and 5.2.3 apply.

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## ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service17.2.1 Synchronous Service Components

There are three categories of service components which apply to synchronous INFOPATH packet switching service.

Port Connections  
Network Usage  
Optional Features

(A) Port Connections

There are two types of port connections: The Access Concentrator Port Connection and the Packet Switch Port Connection. These port connections and protocols are as follows.

(1) Access Concentrator Port Connection (Low to Medium Throughput)

An Access Concentrator Port Connection provides the customer with dedicated access to a port on the access concentrator at transmission speeds of up to 9.6 kbps using a Voice Grade Channel or DIGIPATH digital service II (DDS II) Channel in New England Telephone and up to 9.6 Kbps using a Voice Grade Channel in New York Telephone. Voice Grade and DDS II channels are specified in Section 7. The technical specifications defined under optional features in Section 7. apply for channels provided to the port connections. Each port connection includes one logical channel. The customer may, at its option, order up to 31 Additional Logical Channels as specified in 17.2.1(C)(1) following. The maximum number of logical channels available is 32 per port.

The Access Concentrator Port Connection has originating and terminating capabilities utilizing X.25 or X.75 Protocol.

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17. Packet Switching Access Service (Cont'd)

17.2 INFOPATH Packet Switching Service (Cont'd)

17.2.1 Synchronous Service Components (Cont'd)

(A) Port Connections (Cont'd)

(1) Access Concentrator Port Connection (Low to Medium Throughput)  
(Cont'd)

(a) X.25 Protocol

X.25 Protocol enables the customer to establish up to 32 multiple virtual communication links from the customer's premises through the packet switching network.

X.25 Protocol Access Concentrator Port Connections are available as specified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

(b) X.75 Protocol\*

X.75 Protocol supports throughout communications from the packet network to an internetwork carrier.

X.75 Protocol Access Concentrator Port Connections are available in the following exchanges.

Burlington, VT  
Manchester, NH  
Portland, ME  
Providence, RI  
Springfield, MA

\* Available in New England Telephone only.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.1 Synchronous Service Components (Cont'd)(A) Port Connections (Cont'd)(2) Packet Switch Port Connection (High Throughput)

The Packet Switch Port Connection provides a direct connection between a customer's premises and a port on the packet switch at transmission speeds of 9.6 or 56 Kbps via a Special Access Voice Grade, Digital Data or DIGIPATH digital service II (DDS II) Channel in New England Telephone and a Digital Data Channel in New York Telephone as specified in Section 7. The technical specifications defined under optional features in Section 7. apply for channels provided to the port connection.

The packet Switch Port Connection has the capability of establishing multiple communication links from the customer's premises through the packet switching network and is available with either X.25 or X.75 protocol. The X.25 and X.75 protocols provide the capability of establishing multiple virtual communication links from the customer's premises through the packet switching network.

The maximum number of logical channels available is 127 channels per port at 9.6 kbps and 511 channels per port at 56 kbps. In New England Telephone, the port charge includes one logical channel with the option of purchasing additional logical channels. In New York Telephone, the port charge includes 127 logical channels per port at 9.6 kbps and 511 logical channels per port at 56 kbps.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.1 Synchronous Service Components (Cont'd)(B) Network Usage

Network usage charges may be billed to either the originator or receiver of the call on a per call or full-time basis. The customer may invoke Reverse Charge Request which is a one-time request for the receiver of the call to accept billing for the usage charges accrued during the call. Reverse Charge Request is made on a per call basis during call establishment with the call set-up packet. Reverse Charge Acceptance allows for full-time reverse charge billing and is established at the time of subscription. With Reverse Charge Acceptance, the customer will be billed for all usage either originating or terminating on the specified port.

The customer may establish a preferred Recognized Private Operating Agency (RPOA) at the time of subscription which ensures that each internetwork call be routed to the customer's preferred internetwork carrier. The customer may override its RPOA Preselection on a per call basis by invoking a Reverse Charge Request to another RPOA.

Packet switching network usage is aggregated per billing month. When more than 2500 kilopackets are transmitted in a billing month, rates are discounted as set forth in 31.17 following. In New England Telephone, Call Detail is provided as a chargeable optional feature.

Network Usage on the INFOPATH packet switching network is comprised of Call Set-Up and Packet Transport as described following.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.1 Synchronous Service Components (Cont'd)(B) Network Usage (Cont'd)(1) Call Set-Up

Call Set-Up initiates a request on a Switched Virtual Circuit for the establishment of a virtual channel for the duration of the call. Call Set-Up is charged on a per call basis. In New York Telephone, an additional Call Set-Up packet charge applies per call redirected when the customer subscribes to Call Redirection.

(2) Packet Transport

Packet Transport provides for the routing of packets over the packet switching network. Usage charges are based on the number of packets transmitted (either sent or received) while the call is on the INFOPATH packet switching service network. The minimum unit of billing is a kilopacket. For billing purposes, a packet consists of up to 128 characters of user data.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.1 Synchronous Service Components (Cont'd)(c) Optional Features

Optional Features provide the customer with additional capabilities for interaction with the INFOPATH packet switching service network and should be selected by the customer at the time of subscription. Except for Call Redirection in New York Telephone, nonrecurring charges do not apply when optional features are ordered in conjunction with the initial INFOPATH packet switching service. When ordered subsequent to the initial INFOPATH Packet Switching Service, Optional Feature or Interface Option Change Charges apply as shown in 31.17 following.

- (1) Additional Logical Channel\* - (USOC-LD9AL) - Allows the customer to simultaneously operate multiple channels on a single port.
- (2) Closed User Group - (USOC-LDJ) - Allows the customer to establish a sub-network among a restricted number of other users within the INFOPATH packet switching service network who can communicate privately with each other. Members of the closed user group may be designated as having Incoming Calls Barred, Outgoing Calls Barred, Fully Restricted access or Unrestricted access. In New York Telephone, each port may be a member of up to ten (10) Closed User Groups for Low to Medium Throughout ports and up to one hundred (100) Closed User Groups for High Throughout ports.
- (3) Call Detail\*\*-(USOC-MAJ1T, MAJ1P) - Provides for magnetic tape or printed detail of each call billed to the customer for use of the INFOPATH packet switching service network. This optional feature is available on either a continuous monthly basis or on a per request basis.

\* Not available for Synchronous High Throughput service with X.75 Protocol in New York Telephone.

\*\* Available in New England Telephone only.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.1 Synchronous Service Components (Cont'd)(C) Optional Features (Cont'd)

- (4) Fast Select Accept/Request\* - Allows up to 124 octets of user data to be included in the call set-up packet of the call connected packet. When the customer subscribes to Fast Select, Fast Select Accept capabilities are established for the port. Fast Select Accept allows a customer to receive user data in the call set-up packet and is required for use of Fast Select Request. Fast Select Request is invoked on a per call basis. In New England Telephone, a charge applies for Fast Select Request on a per call basis and includes call set-up charges.
- (5) Multiple Network Address\* - (USOC-LDQ) - Allows a customer to subscribe to additional data terminal numbers in groups of 10. These numbers can be used with existing packet network connections and allow messages to be delivered to the customer's prespecified destinations. Multiple Network Addresses hunt in conjunction with the primary network address. Hunting provides for maximum call connection efficiency.
- (6) Permanent Virtual Circuit - (USOC-LDV) A circuit which is the electronic equivalent of a dedicated private line between two destination network addresses.
- (7) Call Redirection - (USOC-LRD) An option which permits calls made to the primary host (computer) location to be redirected to an alternate host location in the event of a failure or busy condition. In New York Telephone, when the customer subscribes to the Call Redirection optional feature, an additional Call Set-Up packet charge applies per call redirected.
- (8) Abbreviated Addressing\*\* - (USOC-LJE) Allows the customer to specify an alpha-numeric code of two up to four characters as the network address.

\* Not available for Synchronous High Throughput service with X.75 Protocol in New York Telephone.

\*\* Available in New England Telephone only.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.2 Asynchronous Service Components (Cont'd)(A) Description

Asynchronous transmission is a form of communications whereby each data character is individually synchronized by means of start and stop elements. The General provisions for INFOPATH packet switching services as shown in 17.1 preceding apply to asynchronous service, as appropriate.

Asynchronous service supports start-stop mode operation with ASCII codes at speeds up to 9.6 kilobits per second (kbps) in New England Telephone and up to 2.4 kbps in New York Telephone. With asynchronous access, the access concentrator will perform a built-in Packet Assembler/Disassembler (PAD) function to convert the data into packets utilizing a common protocol (X.25) and route them through the network to the specified destination.

The customer must provide Data Terminal Equipment (DTE) in conformance with the interface specifications as described in Technical Reference NTR-74252 (Asynchronous Protocol).

(B) Service Components

There are three categories of service components which apply to asynchronous INFOPATH packet switching service.

Access Concentrator Port Connections  
Network Usage  
Optional Features

## (1) Access Concentrator Port Connections

There are three types of Port Connections: The Public Dial Access Port Connection, the Private Dial Access Port Connection and the Dedicated Access Port Connection. These connections are described as follows.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.2 Asynchronous Service Components (Cont'd)(B) Service Components (Cont'd)

## (1) Access Concentrator Port Connections (Cont'd)

## (a) Public Dial Access Port Connection

Dial Access, for originating calls only, is initiated by dialing an INFOPATH packet switching service network number via an exchange line. Applicable message unit and toll charges apply for each completed call to the INFOPATH packet switching service network access number. Dial access supports asynchronous protocol and transmission speeds of up to 2.4 kbps.

In New England Telephone, a Network User Identifier (NUI) Code is required for log-on to the network if usage charges are to be billed to the originator. A NUI is an alphanumeric code which identifies the user to the INFOPATH packet switching service network.

In New York Telephone, a Packet Network Identification Number (PNIN) is required by the originator to connect with an Information Provider (IP). A PNIN is an alphanumeric code which provides automatic connection to an IP and serves to identify the originator to the IP. PNINs are sold to IPs in blocks of five. Usage charges are billed to the receiver of the call (i.e., the IP).

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.2 Asynchronous Service Components (Cont'd)(B) Service Components (Cont'd)

## (1) Access Concentrator Port Connections (Cont'd)

## (b) Private Dial Access Port Connections

## (i) Private Dial-In Access Port Connections

The Private Dial-In Access Port Connection is the same as the Public Dial Access Port Connection except that it is dedicated to one customer. A separate business line with dial-up network exchange capability, excluding Centrex, FGA and CSL BSA, is required to provide the customer who subscribes to the private dial port with a connection from the central office switch to Access Concentrator. The customer who subscribes to the private dial port is responsible for the additional line. Private Dial-In Access supports asynchronous protocol with transmission speeds of up to 9.6 kbps in New England Telephone and transmission speeds of up to 2.4 kbps in New York Telephone.

In New England Telephone, the Network User Identifier code for log-on to the network is an optional feature.

For Private Dial-In Access, in New England Telephone the port charge is billed at a fixed monthly rate. In New York Telephone, customers have the choice of selecting Option 1 or Option 2 port charges.

- Option 1 is a per month per port charge billed at a fixed monthly rate.
- Option 2 is a per minute of use charge and is subject to a minimum monthly charge. Option 2 charges begin when an end user gains access to a Private Dial-In Access Port and ceases when the call is terminated.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.2 Asynchronous Service Components (Cont'd)(B) Service Components (Cont'd)

## (1) Access Concentrator Port Connections (Cont'd)

## (b) Private Dial Access Port Connections

## (ii) Private Dial-Out Access Port Connections\*

The Private Dial-Out Access Port Connection enables a customer to place a call to an address outside of the packet network (i.e. a destination on the switched network) via the access concentrator. This port connection is dedicated to one customer and supports transmission speeds up to 2.4 kbps. A separate business line, with dial-up network exchange capability, excluding Centrex and Line Side Switched Access Services, is required to connect the central office switch to the access concentrator. The customer who subscribes to the Private Dial-Out Access Port Connection is responsible for the additional business line.

The Network User Identifier (NUI) Code for log-on to the network is an optional feature.

\* Available in New England Telephone only.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.2 Asynchronous Service Components (Cont'd)(B) Service Components (Cont'd)

## (1) Access Concentrator Port Connections (Cont'd)

## (c) Dedicated Access Port Connection

Provides dedicated access from a customer designated premises to a port on the access concentrator at transmission speeds of up to 9.6 kbps in New England Telephone and up to 2.4 kbps in New York Telephone using Voice Grade Channels as specified in Section 7.

## (2) Network Usage

Network Usage for asynchronous service is the same as for network usage for synchronous service, as described in 17.2.1(B) preceding. In New England Telephone, usage charges may be billed to the originator or receiver of the call. In New York Telephone, usage charges are billed only to the receiver of the call.

## (3) Optional Features

- (a) Network User Identifier (NUI) Code\* - A NUI is an alphanumeric code which identifies the user to the INFOPATH packet switching service network. The code is stored in one Access Concentrator unless storage in additional Access Concentrators is specified. A customer may specify a NUI as Auto-Connect which allows a frequently called network address to be automatically connected when the Auto-Connect NUI is entered. This option is available for private dialed ports only.

\* Available in New England Telephone only.

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17.2 INFOPATH Packet Switching Service (Cont'd)

17.2.2 Asynchronous Service Components (Cont'd)

(B) Service Components (Cont'd)

(3) Optional Features (Cont'd)

(a) (Cont'd)

Usage charges for originating calls will be billed to the NUI unless otherwise specified. A NUI customer may invoke Reverse Charge Request on a per call basis during call establishment with the call set-up packet. At the time of subscription, a customer subscribing to the NUI Optional Feature may make a Recognized Private Operating Agency (RPOA) Preselection to transport its internetwork calls.

(b) The following optional features are available with asynchronous service at rates and charges as specified in 31.17 following.

Closed User Group\*\*  
Permanent Virtual Circuit\*\*  
Fast Select Accept/Request\*  
Call Detail\*  
Call Redirection\*

\* Available in New England Telephone only.

\*\* Available only for Asynchronous service with Dedicated Access Port connections in New York Telephone.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.3 New England Telephone and Telegraph Company Feature-Based Payment Option(A) General

- (1) The Feature-Based Payment Option (FPO) is an optional method of payment for customers who commit to a minimum of 2,500 kilopackets of usage per month.
- (2) The FPO allows the customer to pay for a system-specific configuration, optional features and monthly usage under a service contract.
- (3) The customer may request to recontract INFOPATH packet switching service at any time during the service contract period. A new contract for the system begins the day following the completion of the conversion order at the currently effective charges. A charge for the conversion order will be specified in the contract. The customer is not billed any one-time or nonrecurring charges previously paid.
- (4) Upon expiration of an FPO Service Contract period, the customer may elect to continue service on a month-to-month basis or continue service in accordance with a new FPO agreement.

(B) Rates and Charges

- (1) The rates and charges for customers under the FPO are contained 31.17 for New England Telephone following. The rates and charges are based on the customer's system-specific configuration including any associated optional features and monthly usage. All customers under the FPO must commit to and pay monthly rates for a minimum usage of 2,500 kilopackets per month. These FPO rates and charges are in addition to the appropriate rates and charges for all access arrangements (facilities from the customer's premises to the INFOPATH packet switching service network) and for other associated optional features and services not covered by the FPO as specified elsewhere in the tariff.

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17. Packet Switching Access Service (Cont'd)17.2 INFOPATH Packet Switching Service (Cont'd)17.2.3 New England Telephone and Telegraph Company Feature-Based Payment Option  
(Cont'd)(B) Rates and Charges (Cont'd)

- (2) The customer may elect to pay FPO billing for committed charges as specified in 31.17 for New England Telephone following. The appropriate time value of money equivalency factor, based on a monthly effective interest rate specified in the contract which is multiplied by the upfront payment charge to determine the monthly rates for optional payment periods. These payments are not subject to Company-initiated change during the period of the contract.
- (3) FPO billing for the monthly service rate as specified in 31.17 for New England Telephone following applies as long as the system under contract remains in service. This recurring monthly charge is subject to annual change by filed tariff revision to reflect changes in the Consumer Price Index for the previous calendar year.
- (4) The FPO service contract includes services for an entire system.
- (5) With the written permission of the Company, the obligation to pay contractual charges may be assigned to another customer at the same location for a fee of \$100 payable by the new customer. In addition to assuming responsibility to pay the contractual charges, the new customer assumes the conditions applicable to INFOPATH packet switching service at the time of the transfer. A transfer of service between customers at the same time as a relocation is not permitted.

(C) Subsequent Additions or Changes

Service may be added to or changed in an existing FPO system in accordance with individually developed rates and charges as specified in 31.17 for New England Telephone following.

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ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)

17.2 INFOPATH Packet Switching Service (Cont'd)

17.2.3 New England Telephone and Telegraph Company Feature-Based Payment Option  
(Cont'd)

(D) Discontinuance of Service

In the event of a complete discontinuance of service prior to the expiration of a FPO service contract, the customer is required to pay the present value of any outstanding payments for committed amounts. Any partial discontinuance of service will not change FPO billing for the remaining life of the service contract.

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17. Packet Switching Access Service (Cont'd)

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17. Packet Switching Access Service (Cont'd)

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## ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)17.5 IP (Internet Protocol) Routing Service17.5.1 Service Description

The Telephone Company's IP (Internet Protocol) Routing Service, IPRS, provides for the collection, concentration and management of the customer's data traffic within a LATA. IPRS consists of network routers located at LATA hub sites that will collect the customer's end user data traffic and concentrate it for connection and transport over the Telephone Company's fast packet data network to a customer's designated location. (C)  
(C)

The customer has the option of utilizing, as a feature of IPRS, Single Number Routing (SNR) in lieu of local telephone numbers, which are included as part of IPRS. This option provides for all end users in a defined geographic area (i.e., a LATA) to have access to the customer via one specialized telephone number. The end user can initiate a call within the service area to the customer, and the call will be treated as a local call by the Telephone Company for the connection and duration of the call. This option (which is assigned USOC NS01X) is part of the standard IPRS offering and is included in the rates and charges for IPRS at no additional charge. (C)  
(C)

The following two alternatives are offered to the customer under this option:

1. The Telephone Company will assign a Single Number Routing telephone number from a 500 NPA; or
2. The customer can provide the Telephone Company with its own 555-XXXX telephone number acquired from the North American Numbering Plan Administration.

For those customers that opt for Single Number Routing, the Telephone Company will provision either a single 500 or 555 telephone number. If the customer requests additional 500 or 555 telephone numbers, special assembly charges will apply.

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ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)

17.5 IP (Internet Protocol) Routing Service (Cont'd)

17.5.1 Service Description (Cont'd)

IPRS provides two types of ports for the collection of end user data traffic. The port type(s) is/are determined by the method(s) chosen by the customer for access to its end user(s). The two port types are:

1. Dial-up Port
2. IPRS DS1/1.544 Mbps Port

(C)

The dial-up port type is intended for use with a single computer connection and not for connection to a Local Area Network (LAN).

IPRS does not include the end user access service. End user services and facilities are available from this and other public telephone network tariffs.

IPRS requires the use of RADIUS (Remote Authentication Dial-In User Service), a network security protocol, for the customer's authentication and authorization of its dial-up end user(s). See Section 17.5.2 following for technical references.

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ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)

17.5 IP (Internet Protocol) Routing Service (Cont'd)

17.5.1 Service Description (Cont'd)

Maintenance and upgrades for IPRS are performed during the hours of 11:00 p.m. and 8:00 a.m. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive or out-of-service condition. The amount of time that this scheduled out-of-service condition will exist is called a "maintenance window." The Telephone Company will provide the customer notice prior to the maintenance window and will work cooperatively with the customer to minimize service disruption. Maintenance window activity could be scheduled for consecutive days.

17.5.2 Technical Specifications

IPRS is provided in compliance with standards established by the Internet Architecture Board as stated in the following publications:

STD 0001, Internet Official Protocol Standards; J Postel, Editor, issued June 1997.

RFC 2138, Remote Authentication Dial-In User Service (RADIUS); C. Rigney, A. Rubens, W. Simpson, S. Willens., issued April 1997.

17.5.3 Terms and Conditions

(A) IPRS is a hubbed service. Included, for provisioning purposes only and subject to facilities, are 10-digit number triggers, which are POTS telephone numbers established in all Telephone Company end offices. A 10-digit number trigger provides for an incoming call to an IPRS dial-up port to be routed to a specific IPRS hub using Telephone Company routing tables. The USOC TGRAR is used to indicate and reserve a customer's 10-digit number trigger(s). IPRS hub wire centers are designated in (B) following.

(D)

(D)

(C)(T)

(C)

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ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)

17.5 IP (Internet Protocol) Routing Service (Cont'd)

17.5.3 Terms and Conditions (Cont'd)

(B)	<u>LATA</u>	<u>Hub Wire Center</u>	<u>Service Availability</u>	(T)
	NY Metro	West 36 <sup>th</sup> Street NYC	May 1999	
	Eastern MA	Franklin Street Boston	May 1999	
	NY Metro	White Plains	June 1999	
	NY Metro	Garden City	June 1999	
	NY Metro	West 18 <sup>th</sup> Street NYC	September 2000	(N)
	NY Metro	East 13 <sup>th</sup> Street NYC	September 2000	
	NY Metro	East 79 <sup>th</sup> Street NYC	December 2000	
	NY Metro	Hempstead	September 2000	
	NY Metro	Deer Park	September 2000	(N)
	Albany	State Street Albany	July 1999	
	Albany	Clinton St. Schenectady	August 1999	
	P'keepsie	Hamilton Street	Sept. 1999	
	P'keepsie	Kingston	May 2000	(N)
	Binghamton	Henry Street	July 1999	
	Binghamton	Corning	May 2000	(N)
	Syracuse	Tioga St. Ithaca	August 1999	
	Syracuse	State St. Syracuse	July 1999	
	Buffalo	Amherst	August 1999	
	Buffalo	Franklin St. Buffalo	July 1999	
	Eastern MA	Bent St. Cambridge	July 1999	
	Eastern MA	Framingham	July 1999	
	Eastern MA	Worcester	Sept. 1999	
	Eastern MA	Brockton	February 2001	(N)
	Eastern MA	Lawrence	February 2001	(N)
	Western MA	Pittsfield	August 1999	
	Western MA	Springfield	July 1999	
	Maine	Augusta	June 1999	
	Maine	Portland	May 1999	
	Maine	Ellsworth	January 2001	(N)
	Maine	Lewiston	December 2000	(N)
	New Hamp.	Manchester	May 1999	
	New Hamp.	Nashua	June 1999	
	Rhode Isl.	Providence	July 1999	
	Rhode Isl.	Newport	August 1999	
	Vermont	Burlington	June 1999	
	Vermont	Montpelier	June 1999	
	Vermont	St. Johnsbury	October 2000	(N)
	Vermont	Brattleboro	January 2001	(N)
	Vermont	Rutland	January 2001	(N)

Certain regulations previously found on this page can now be found on Original Page 17-45.1.

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ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)

17.5 IP (Internet Protocol) Routing Service (Cont'd)

17.5.3 Terms and Conditions (Cont'd)

- (C) IPRS is available on a month-to-month basis and for commitment periods of 3 years and 5 years.
- (D) Month-to-month service is subject to a minimum service period of 12 months.
- (E) Customers electing a 3-year or 5-year term must also select a minimum port volume for the service period.
- (F) IPRS is provided on a negotiated service date interval.
- (G) IPRS is monitored and maintained 24 hours-a-day 7 days-a-week for trouble isolation and resolution.
- (H) The customer is responsible for purchasing an adequate quantity of ports to accommodate originating dial-up traffic, which is delivered to the selected IPRS hub(s) for aggregation and routing to the customer's host location. A Port Capacity Report, furnished by the Telephone Company, that indicates 100% utilization for 30 minutes or more during any one-week period will require the customer to augment their port capacity accordingly in the affected hub(s).

(N)  
|  
(N)

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2980 Fairview Park Drive, Falls Church, VA 22042

ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)

17.5 IP (Internet Protocol) Routing Service (Cont'd)

17.5.4 Rate Regulations

- (A) All rate categories are billed monthly.
- (B) Nonrecurring charges apply for the installation of each port, as set forth in 31.17.6 following. (C)  
(C)

A conversion of service to a new commitment period of equal or greater length than the remainder of the existing term does not incur nonrecurring charges for the existing port.

- (C) When a customer's commitment period ends, the rates associated with the quantity of ports installed under such commitment period will remain in effect. (C)  
(C)

- (D) Termination liability applies when a port is disconnected prior to the end of the minimum service period or prior to the end of the selected commitment period. Liability is assessed as follows:

Month-to-Month Service: The customer is responsible for 100% of the monthly rates for the entire 12-month minimum service period.

3 and 5-Year Terms: The customer is responsible for 100% of the monthly rate for the first months and 15% of the remaining monthly charges.

Termination liability is waived if a port is converted to another term of equal or greater value in revenue than the remainder of the present term.

Termination liability is waived when a customer replaces one port for another type and commits to a term of equal or greater value in revenue than the remainder of the current commitment. The replacement is subject to applicable nonrecurring charges.

If the customer's recurring rate increases, the customer may discontinue service without liability.

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ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)

17.5 IP (Internet Protocol) Routing Service (Cont'd)

(N)(y)

17.5.4 Rate Regulations (Cont'd)

- (E) Customers with a 3-year or 5-year term commitment must order service with a volume commitment, enabling the customer to receive the discount applicable to the appropriate volume tier for the committed volume for all ports subscribed. Customers with this option and a 3-year term will have 12 months after the initial port installation to reach the committed port volume. Customers with a 5-year term who select this option will have 24 months after the initial port installation to reach the committed volume.

Six months after the end of the appropriate 12 or 24 month installation window, a review of the customer's account will be performed to verify that the committed volume level has been achieved. Rates will be adjusted accordingly based upon the number of ports in service.

Failure to achieve the guaranteed quantity of ports within the specified time frame will result in all ports being rerated to the applicable monthly rate for the quantity actually in service. In addition, a liability charge equal to the monthly rate per port at the guaranteed commitment level multiplied by the port shortfall (the difference between the committed volume and the actual number of ports in service) multiplied by 3 months will apply.

In the event the customer has exceeded the commitment level, and the number of ports in service qualifies for a lower monthly rate based upon the volume tier for that number of ports, all ports will be rerated to the new, lower monthly rate.

Customer account reviews will be performed semi-annually after the first review until the end of the commitment period.

- (F) Customers with a 3-year or 5-year term commitment may add additional ports at any time during the commitment period at the rates applicable for the term commitment and the volume commitment initially selected. All ports will therefore be subject to a common expiration date for service commitment.

- (G) IPRS ports must be purchased in increments of 23 ports, except where available as single port quantities.

(N)(y)

(y) Issued under authority of Special Permission No. 99-56 to revise pending material.

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## ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)17.5 IP (Internet Protocol) Routing Service (Cont'd)17.5.4 Rate Regulations (Cont'd)

- (H) Upon receipt of a bona fide request from a customer for a port quantity in excess of 75,500 Ports, the Telephone Company will work cooperatively with the customer to develop a per port rate for the requested quantity. Once the per-port rate is developed and accepted by the customer, it will then be tariffed and made available to any other customers requesting that same port quantity. (C)
- (I) IPRS Reports
- (1) IPRS includes a text-based, preformatted Daily Capacity Report that includes all network elements and all items from the previous day. This report is provided to each IPRS customer each day via e-mail without charge.
- (2) Customers desiring additional reports may choose optional Customer Service Management (CSM) Reports. The Telephone Company will provide IPRS customers with traffic reports and the ability to access these traffic data in near real-time via web-based access. The following reports will be available to the IPRS customer:
- (a) Total Connections, Analog and Digital
  - (b) Analog and Digital Ratio
  - (c) Calls Increment (measuring total calls received in ten minute intervals)
  - (d) ISDN Connections
  - (e) Modem Connections (measuring analog call connections)
  - (f) Seconds Increment (measuring total duration in seconds for a specific period of time)
  - (g) Weekly Maximum for Total Connections, Analog and Digital
- (3) Customers opting for the CSM Reports will have the ability to display varying time periods for archived data, in varying intervals (i.e., several days, weeks, or months up to 12 months prior). CSM customers will also have the ability to view the output data graphically. Appropriate output may also be displayed illustrating Raw Data, Peaks, or Averages. Polling across the IPRS network for the CSM reports occurs in 10-minute intervals on average. Output data are not available for the most recent 24 hours prior to the query.

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ACCESS SERVICE

17. Packet Switching Access Service (Cont'd)

17.5 IP (Internet Protocol) Routing Service (Cont'd)

17.5.4 Rate Regulations (Cont'd)

(I) IPRS Reports (Cont'd)

- (4) Recurring and Nonrecurring charges are based on a per-user access limited to six (6) IP addresses. The price entitles the customer to access the entire menu of available reports. Charges are assessed based on the size of the IPRS network (200 IPRS ports or less, or greater than 200 IPRS ports). If additional user access is needed, customers will be required to pay an additional appropriate monthly rate for each additional user access requested.

17.5.5 Rate Categories

- (A) Dial-up Port: Provides one data path connection in a local calling area of the company designated by the customer for analog/ISDN dial-up access to the customer by the customer's end users, and the IP routing of the end user data to the customer. (C)
- (B) IPRS DS1/1.544 Mbps Port: Provides connection and IP routing of end user data terminated over dedicated private line facilities at a speed of 1.544 Mbps.

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