

FRONTIER TELEPHONE OF ROCHESTER, INC.
P.S.C. NO. 5 - TELEPHONE
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5 LINKS

5.1 Links Description

Links are the physical facilities from the network interface on an end user's or carrier-customer's premises to a point of interconnection on the main distribution frame of the Telephone Company's end office. The Telephone Company offers the following link types. They are grouped to distinguish between analog and digital and are also classified according to bandwidth.

- A = Flat Rate Residential (bundled with port)
- B = Flat Rate LATA-wide Residential (bundled with port)
- C = Measured Rate Residential (bundled with port)
- D = Measured Rate Residential (unbundled)
- E = Basic Business Voice Grade, Analog PBX Service, Analog DID Service, Coin Service, 2 Wire Analog Private Line, Centrex
- F = 4 Wire Analog Switched or Private Line
- G = ISDN, Centrex ISDN, APLUS
- H = ISDN Flat Rate Residence/Single Circuit Switched Data Package (bundled with port)
- I = ISDN Flat Rate Residence/Dual Circuit Switched Data Package (bundled with port)
- J = Residential ISDN - Basic
- K = Corporate Work-at-Home
- L = Business ISDN - Basic (Bundled with Port)
- M = Bundled ISDN Centrex
- N = Digital Private Line Up to 56 kbps (low speed digital)
- O = DS-1 (1.544 Mbps), Digital PBX Service, Digital DID Service
- P = DS-3 (45 Mbps)
- Q = Student Centrex
- R = Fractional DS-1
- S = Deloading Charge for Removal of Loads
- T = Charge to Condition Links for Compatibility with Data Modems

The Telephone Company's rates for links depend only on the transmission or functional characteristics of the unbundled link facilities, and not on the type of service or facility to which the link is connected. The Telephone Company warrants that each category of link will be suitable for use in connection with the services listed in the table above. Carrier-customers who purchase unbundled links and their end users will be free to transmit any form of signals over those links and connect the links to any other equipment (subject to the FCC's Part 68 rules), but the Telephone Company cannot warrant the suitability of links for any particular purpose not listed in the Tariff.

Interoffice facility charge recovers the non-distance sensitive transmission equipment in the Central office and the interoffice facilities. The rates for interoffice charges are listed in Section 13, Rates.

Unless stated otherwise, all link mileage will be based on the route of the plant (not airline).

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5.2 Flat Rate Residential (Bundled with Port)

Flat Rate Residential Voice Grade links may only be purchased as a bundled unit with Flat Rate Residential ports at a discount off of the retail rate. For end-users in Rate Group 9, the monthly bundled charge includes the Extended Area Service (EAS) Surcharge, which allows customers to call non-adjacent exchanges without incurring a toll charge. The EAS surcharge will apply to other rate group end users who have free non-adjacent calling.

Residential Voice Grade links provide a channel for the transmission of analog signals with an approximate bandwidth of 300 - 3000 Hz. Rates for Flat Rate Residential links can be found in Section 13, Rates.

5.3 Flat Rate Lata-Wide Residential (Bundled with Port)

Flat Rate LATA-wide Residential Voice Grade links have the same functional characteristics as Flat Rate Residential Links and may only be purchased as a bundled unit with Flat Rate LATA-wide Residential ports at a discount off of the retail rate. Customers of this service will not be charged for intraLATA toll calls placed by their end users. Rates for Flat Rate LATA-wide Residential links can be found in Section 13, Rates.

There is no charge to customers who switch to Flat Rate LATA-wide Residence Service or from Flat Rate LATA-wide Residence Service.

5.4 Measured Rate Residential (Bundled with Port)

Measured Rate Residential Voice Grade links may be purchased as a bundled unit with Measured Rate Residential Voice Grade ports at a discount off of the retail rate. Usage for this arrangement is charged on a per-minute basis.

Residential Voice Grade links provide a channel for the transmission of analog signals with an approximate bandwidth of 300 - 3000 Hz. Rates for Measured Rate Residential bundled links can be found in Section 13, Rates.

5.5 Measured Rate Residential (Unbundled)

Measured Rate Residential links may be purchased on an unbundled basis.

Residential Voice Grade links provide a channel for the transmission of analog signals with an approximate bandwidth of 300 - 3000 Hz. Rates for Measured Rate Residential unbundled links can be found in Section 13, Rates.

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5.6 Basic Business Voice Grade

- 5.6.1 Basic Business Voice Grade links provide a channel for the transmission of analog signals within an approximate bandwidth of 300 - 3,000 Hz.
- 5.6.2 These Basic Business Voice Grade links, whose rates are listed in Section 13, Rates may only be used to provide dial tone service.
- 5.6.3 Basic Business Voice Grade links support the following services: analog PBX service, analog DID service, Coin service, 2 Wire Analog Private Line and Centrex service.
 - a. Analog Private Branch Exchange (PBX) service is a service providing facilities for connecting central office trunk and tie lines to PBX stations, and for interconnecting PBX station lines by means of a switchboard or dial apparatus. PBX links are the outside plant facilities used to provide service, located between the Customer premises and the vertical side of the main distribution frame.
 - b. Analog Direct Inward Dialing (DID) is a service which allows an incoming exchange call to be dialed directly by a calling party to a station associated with a switching system located on the end user's premises without attendant assistance. DID service is only provided out of those central offices that are equipped to provide the service. Analog DID service is for voice communication only and not for the transmission of data.
 - c. Coin telephone service is exchange service provided for the use of end users, network providers and carrier-customers, upon immediate payment of charges for local and toll calls. FTR links will terminate at a demarcation point, applied consistently to all coin service providers.
 - d. 2 Wire Analog Private Line service provides a point-to-point line without access to the exchange system for communication between two points using equipment furnished by the network providers.
 - e. Centrex service consists of digital switching equipment on the network provider's premises, connected to station lines on the end users' premises. Centrex enables stations to dial each other and to dial outgoing calls directly.

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5.7 4 Wire Analog Private Line

4 Wire Analog Private Line links provide a point-to-point line without access to the exchange system for communication over 4 wires using equipment furnished by the network providers.

5.8 ISDN, Centrex, ISDN, APLUS

Integrated Services Digital Network (ISDN) service is an exchange service available from digital ISDN equipped central offices. ISDN service allows for the integration of voice and non-voice (data) on a single telephone access line. ISDN service consists of a digital service line which provides digital termination capabilities to the Customer's premises and allows for the simultaneous transmission of voice and data traffic. An ISDN link provides the capacity for two simultaneous voice/data channels and one low speed data channel.

ISDN Centrex service enables stations to dial each other and to dial outgoing calls directly. Incoming calls may be dialed directly to any station. ¹

Advanced Private Line User Service (APLUS) is a digital private line service that will provide service at rates of 2.4 Kbps, 4.8 Kbps, 9.6 Kbps, 19.2 Kbps, 38.4 Kbps, 56 Kbps, and 64 Kbps. Higher speeds are available at increments of 64 Kbps up to 1.544 Mbps between two points or multiple points. APLUS links can be provisioned via a 1.544 Mbps loop facility, two or four-wire digital loop facilities or any combination thereof.

(C)

5.9 ISDN Flat Rate Residence/Single Circuit Switched Data Service Package ²

Circuit Switched Data usage in excess of 30 hours will be billed per the rates in Section 13, Rates.

The ISDN Flat Rate Residence/Single Circuit Switched Data Package is limited to a maximum two point multipoint.

The ISDN Flat Rate Residence/Single Circuit Switched Data Package is limited to only 5.8.3e Circuit Switched Data telephone number per line.

¹ As of September 15, 1997, this service is grandfathered. Only customers of record as of 9/15/97 may have this service.

² As of January 27, 1997, this service is grandfathered. Only customers of record as of 1/27/97 may have this service.

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5.10 ISDN Flat Rate Residence/Dual Circuit Switched Data Package ¹

Circuit Switched Data usage will be calculated for each individual B channel in use. The cumulative duration of each circuit switched data channel call will be summed each month. The first 30 hours of cumulative usage will not be billed. The cumulative usage in excess of the first thirty hours will be billed per the rates in Section 13, Rates. For example, when two B channels are used on a circuit switched data call for two hours, the call will be billed four hours of circuit switched data usage. If only one circuit switched data channel is in use for four hours, the call will be billed four hours.

The ISDN Flat Rate Residence/Dual Circuit Switched Data Package is limited to a maximum two point multipoint.

The ISDN Flat Rate Residence/Dual Circuit Switched Data Package is limited to only one Circuit Switched Data telephone number per line.

¹ As of January 27, 1997, this service is grandfathered. Only customers of record as of 1/27/97 may have this service.

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5.11 Residential ISDN - Basic (Bundled with Port)

ISDN service including (2) B channels and one (1) D channel offered to residential customers in the Urban Rochester and Rural areas. Circuit switched data usage will be calculated for each individual B channel in use. The cumulative duration of each circuit switched data channel call will be summed each month.

Customers will have five separate product options for the amount of circuit switched data they wish to include in the base rate; options range from 0 to 500 hours. Circuit switched data usage over the specified level included in the base rate will be charged the per minute circuit switched data rate identified in Section 19 of this tariff.

An additional surcharge will be added to Rural customer bills to recover FX transport and field repeater costs associated with provisioning ISDN service in the rural areas. Rural areas for this product include the exchanges of Atlanta, Avon, Bergen, Brockport, Castile-Gainesville-Silver Springs, Cohocton, Dansville, Hamlin, Hemlock, Honeoye Falls-Lima, LeRoy, Liechester, Livonia, Mt. Morris, Naples, Nunda, Pavilion, Perry, Springwater, Warsaw, Wayland and Wyoming and the central offices of Bristol Harbor, Farmington and Stottle Road.

Rates include where applicable, line conditioning, field repeaters, FX transport and FX Mileage charges. Note: FX transport and FX mileage are included only if it is necessary to provision the service. Furthermore, the customer does not have a choice of where the service will be FX'd from, this is at the sole discretion of the Telephone Company.

Only a one-year term is available.

Product limited to only one circuit switched data telephone number per line.

Product limited to a maximum two point multipoint.

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5.12 Corporate Work-at-Home (Bundled with Port)

ISDN service including two (2) B channels and one (1) D channel offered to business customers to provide their work-at-home employees ISDN service in the Urban Rochester and Rural areas. Rural areas for this product include the exchanges of Atlanta, Avon, Bergen, Brockport, Castile-Gainesville-Silver Springs, Cohocton, Dansville, Hamlin, Hemlock, Honeoye Falls-Lima, LeRoy, Liechester, Livonia, Mt. Morris, Naples, Nunda, Pavilion, Perry, Springwater, Warsaw, Wayland and Wyoming and the central offices of Bristol Harbor, Farmington and Stottle Road.

Circuit switched data usage will be calculated for each individual B channel in use. The cumulative duration of each circuit switched data channel call will be summed each month. Customers will have five separate product options for the amount of circuit switched data they wish to include in the base rate; options range from 0 to 500 hours. Circuit switched data usage over the specified level included in the base rate will be charged the per minute circuit switched data rate in Section 13, Rates of this tariff.

Rates include where applicable, line conditioning, field repeaters, FX transport and FX Mileage charges. Note: FX transport and FX mileage are included only if it is necessary to provision the service. Furthermore, the customer does not have a choice of where the service will be FX'ed from, this is at the sole discretion of the Telephone Company.

Corporate work-at-home package is limited to only one circuit switched data telephone number per line.

Corporate work-at home package is limited to a maximum two point multipoint.

Customer must purchase a minimum of 10 ISDN lines.

Termination

If a customer terminates Corporate work-at-home service prior to the expiration of the minimum service period, the customer will be required to continue paying the applicable charges for the remainder of the first year. In the case of two and three year contracts, the customer will also be required to pay a penalty of 50% of the balance of the contract amount after the first year. For example, if a customer signs a two-year term and cancels after nine months, the customer would be responsible to pay for the remaining three months of the first year and six months of the second year.

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5.13 Business ISDN - Basic (Bundled with Port)

ISDN service including two (2) B channels and one (1) D channel offered to business customers in Urban Rochester and Rural areas. Rural areas for this product include the exchanges of Atlanta, Avon, Bergen, Brockport, Castile-Gainesville-Silver Springs, Cohocton, Dansville, Hamlin, Hemlock, Honeoye Falls-Lima, LeRoy, Liechester, Livonia, Mt. Morris, Naples, Nunda, Pavilion, Perry, Springwater, Warsaw, Wayland and Wyoming and the central offices of Bristol Harbor, Farmington and Stottle Road.

Circuit switched data usage will be calculated for each individual B channel in use. The cumulative duration of each circuit switched data channel call will be summed each month. Customers will have five separate product options for the amount of circuit switched data they wish to include in the base rate; options range from 0 to 500 hours. Circuit switched data usage over the specified level included in the base rate will be charged the per minute circuit switched data rate in Section 13, Rates of this tariff.

Rates include where applicable, line conditioning, field repeaters, FX transport and FX Mileage charges. Note: FX transport and FX mileage are included only if it is necessary to provision the service. Furthermore, the customer does not have a choice of where the service will be FX'ed from, this is at the sole discretion of the Telephone Company.

This package is limited to only one circuit switched data telephone number per line.

This package is limited to a maximum two point multipoint.

Termination

If a customer terminates Business ISDN service prior to the expiration of the minimum service period, the customer will be required to continue paying the applicable charges for the remainder of the first year. In the case of two and three year contracts, the customer will also be required to pay a penalty of 50% of the balance of the contract amount after the first year. For example, if a customer signs a two-year term and cancels after nine months, the customer would be responsible to pay for the remaining three months of the first year and six months of the second year.

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5.14 Bundled ISDN Centrex

5.14.1 Features

- a. ISDN service including two (2) B channels and one (1) D channel offered to business customers in Urban Rochester and Rural areas. Rural areas for this product include the exchanges of Atlanta, Avon, Bergen, Brockport, Castile-Gainesville-Silver Springs, Cohocton, Dansville, Hamlin, Hemlock, Honeoye Falls-Lima, LeRoy, Liechester, Livonia, Mt. Morris, Naples, Nunda, Pavilion, Perry, Springwater, Warsaw, Wayland and Wyoming and the central offices of Bristol Harbor, Farmington and Stottle Road.
- b. Circuit switched data usage will be calculated for each individual B channel in use. The cumulative duration of each circuit switched data channel call will be summed each month. Customers will have five separate product options for the amount of circuit switched data they wish to include in the base rate; options range from 0 to 500 hours. Circuit switched data usage over the specified level included in the base rate will be charged the per minute circuit switched data rate in Section 13, Rates of this tariff.
- c. Rates include where applicable, line conditioning, one field repeater, FX transport and FX Mileage charges. Note: FX transport and FX mileage are included only if it is necessary to provision the service. Furthermore, the customer does not have a choice of where the service will be FX'ed from, this is at the sole discretion of Frontier Telephone of Rochester, Inc.
- d. This package is limited to only one circuit switched data telephone number per line.
- e. This package is limited to a maximum two point multipoint.
- f. Termination

If a customer terminates Bundled ISDN Centrex service prior to the expiration of the minimum service period, the customer will be required to continue paying the applicable charges for the remainder of the first year. In the case of two and three year contracts, the customer will also be required to pay a penalty of 50% of the balance of the contract amount after the first year. For example, if a customer signs a two year term and cancels after nine months, the customer would be responsible to pay for the remaining three months of the first year and six months of the second year.

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5.14 Bundled ISDN Centrex (Cont'd)

5.14.2 Additional Features

- Add On-Consultation Hold
- Call Forwarding- Remote
 - Variable
 - Incoming Only
 - Busy Line
 - Busy Line-Incoming Only
 - Don't Answer
 - Don't Answer-Incoming Only
- Call Pick-Up
- Customer Changeable Speed Calling
- Direct Inward Dialing (DID)
- Direct Outward Dialing (DOD)
- Directed Call Pick-Up
- Group Numbering Plan
- Identified Outward Dialing (IOD)
- Speed Calling
- Station Line Hunting
- Station-to-Station Calling On Circuit Switched Voice and Data Calls
- Tie Line Access

ISDN Centrex Group - Allows up to eight primary directory numbers to appear on a single ISDN Centrex terminal.

ISDN Centrex Group Coverage for Analog Lines - Allows an analog station set to share call appearances with an ISDN Centrex group terminal. Suitable terminal equipment is required.

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5.15 DIGITAL PRIVATE LINE UP TO 56 KBPS

Low Speed Digital service provides point-to-point and multi-point data transmission service designed to transmit data in digital form, end-to-end over digital facilities routed through a central office node. Low Speed Digital links are capable of the simultaneous two-way transmission of digital signals at synchronous speeds of 2.4, 4.8, 9.6, or 56 Kbps between two or more points.

5.16 DS-1, DIGITAL PBX, DIGITAL DID

A DS-1 link provides a channel for the transmission of serial digital data at rates of 1.544 Mbps. DS-1 links support the following services: digital PBX service and digital DID service. (See Section 7, Channel Connections, Paragraph Y) for regulations regarding DS-1 Services.

5.17 DS-3

A DS-3 link provides a channel for the transmission of serial digital data at rates of 44.736 Mbps asynchronous serial data. (See Section 7, Channel Connections, Paragraph Y) for regulations regarding DS-3 Services.

5.18 SONET

SONET is the North American standard for the transmission of high capacity bandwidth over optical facilities. Because of the large bandwidth, some of the payload is used to monitor, protect, manage, and improve the transmission of the signal.

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5.19 Services Associated with Links

STUDENT CENTREX SERVICE

Student Centrex Service is furnished in dormitory rooms for the use of students and employees of the college or school, who are residents in the dormitory. Regulations for this service can be found in the Ports Section.

FRACTIONAL DS-1 SERVICE

Fractional DS-1 Service is a High Capacity Digital Service that provides for the transmission of signals in N x 56 Kbps or N x 64 Kbps, ordered in increments of 2, 3, 4, 5 or 6 DS-0 channels.

DELOADING CHARGE FOR REMOVAL OF LOADS

A non-recurring deloading charge per loop will apply for situation in which a customer request the removal of loads from 2 or 4 wire links that are not included as part of Frontier Telephone of Rochester, Inc.'s Advanced Private Line User Service (APLUS), Low Speed Digital Service (LSDS), Integrated Services Digital Network (ISDN) or DS-1 or DS-3.

CHARGE TO CONDITION LINKS FOR COMPATIBILITY WITH DATA MODEMS

A nonrecurring charge per link will apply for situations in which conditioning must be performed to allow compatibility with data modems. Transmission rates exceeding 4800 baud are not guaranteed for this service.