## CENTREX IntelliLinQ®-BRI (Effective 2/1/16 - :LA-2\*)

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#### A. GENERAL

Central IntelliLinQ-BRI is an optional service arrangement for use with Centrex. IntelliLinQ-BRI uses the Basic Rate Interface (BRI) arrangement of the Integrated Services Digital Network (ISDN). The regulations, rates and charges contained herein are in addition to the applicable Centrex service arrangements specified in the Local Exchange Services and Miscellaneous Services Arrangements Tariffs and this Product Guide.

#### B. REGULATIONS

#### Explanation of Terms

#### Basic Rate Interface Service

IntelliLinQ Basic Rate Interface Service provides ISDN capabilities from an ISDN equipped switch in the central office. Basic Rate Interface Service consists of two "B" channels and one "D" channel (2B+D) which are defined as:

#### **B** Channel

The B channel is a 64 kilobit per second (Kbps) channel used for information transfer between users. The B channel may be used in conjunction with circuit switching service.

#### D Channel

The D channel is a 16 kilobit per second packet-switched channel that carries signaling and control for the B channels and also supports customer packet traffic at speeds up to 9.6 kbps.

### Circuit Switching

A switching technique in which an entire circuit or, in a digital switch (ISDN), a specific selection of time slots is dedicated to a given call.

#### Featured Voice IntelliLinQ-BRI Access

Featured Voice IntelliLinQ-BRI Access uses only one B Channel of the ISDN architecture. In addition to providing voice access, it also provides the customers with the Electronic Key Features describe in B.5. following.

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## B. REGULATIONS (Cont'd)

1. Explanation of Terms (Cont'd)

Integrated Services Digital Network

Integrated Services Digital Network (ISDN) is part of the evolving end-to- end digital telecommunications network architecture which provides for the simultaneous access, transmission and switching of voice, data and image services via channelized transport facilities over a limited number of standard user-network interfaces. The ISDN architecture consists of digital switching systems which connect intra-switch Basic Rate Interface lines to their serving central office.

#### IntelliLinQ®-BRI

IntelliLinQ-BRI is an optional service arrangement which can be used in conjunction with a customer's Centrex service. It uses the ISDN architecture to provide the customer with the capabilities of simultaneous access, transmission and switching of voice, data and image services via channelized transport. In addition, IntelliLinQ-BRI provides the customer with the service capabilities, Electronic Key Features and Packet Data Features as respectively described in B.3., B.5. and B.6. following.

Intercom Group

Enables a customer to terminate, via abbreviated dialing, on a member of a predesignated group.

Multiple Access IntelliLinQ-BRI

Multiple Access IntelliLinQ-BRI utilizes both B Channels of the ISDN architecture for either voice or circuit switched data. This also applies when only one B channel is utilized for circuit switched data.

**Network Interfaces** 

ISDN Basic Rate Interface is comprised of a limited set of standard user-network interfaces. The BRI CPE located at the customer premises is subject to the mutual agreement of the parties and must be compatible with the network interface. They are defined as follows:

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## B. REGULATIONS (Cont'd)

1. Explanation of Terms (Cont'd)

Network Interfaces (Cont'd)

- (a) A two-wire interface is the two-wire physical interface between a switch equipped with ISDN and the network termination (NT1). The NT1 is customer premises equipment which is necessary for terminating a telephone circuit or facility at the customer premises.
- (b) A four-wire interface is the four-wire physical interface (distance limited) between a switch equipped with ISDN and the customer's NT2 or their ISDN terminal equipment. The NT2 is customer premises equipment. This interface will be provided at the sole discretion and judgment of the Telephone Company.

## Packet Switching

A switching technique in which packets of data are individually addressed and combined on a transmission path with other addressed packets. The maximum packet transmission rate for Basic Rate Interface is 9.6 kbps on the D-channel.

X.25

X.25 is the ITU (International Telecommunications Union) recommended and internationally accepted standard for connecting computers to packet switched networks.

- 2. Customers subscribing to Centrex **IntelliLinQ**-BRI must comply with the ISDN Basic Rate Interface specifications established by the Telephone Company.
- 3. Service Capabilities

Customers can configure Centrex IntelliLinQ-BRI using the following service capabilities:

- a. Featured Voice on the B channel(s).
- b. Circuit switched data on the B channel(s) up to 64 kbps.
- c. Packet switched data on the D channel at speeds up to 9.6 kbps.
- \* See Section 1B of the Verizon Virginia Product Guide. CENTREX IntelliLinQ®-BRI will be grandfathered and no longer available to new customers on and after February 1, 2016. On and after February 1, 2016, existing customers can continue to make moves, adds and changes at existing locations only, but cannot establish service at new locations. CENTREX IntelliLinQ®-BRI continues to be available for resale until April 17, 2016; effective on and after April 17, 2016 the foregoing grandfathering terms shall apply to CENTREX IntelliLinQ®-BRI purchased for resale.

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### CENTREX IntelliLinQ®-BRI (Effective 2/1/16 - :LA-2\*)

### B. REGULATIONS (Cont'd)

#### 4. Conditions

This service is offered subject to the following conditions:

- a. Existing usage charges apply to circuit switched voice calls.
- Circuit switched data calls will be billed on a local usage sensitive basis when placed outside the Centrex.
   Toll charges will apply when circuit switched data calls are made outside of the Local Exchange Service
   Base Rate Area.
- c. Packet data calls will be billed the Packet Data Network rates as specified in appropriate tariffs or product guides for calls outside the customer's Centrex Group.
- d. Packet calls within a customer's Centrex Group requires seven digit dialing.
- e. ISDN compatible terminal equipment is a requirement for operation, and it is the responsibility of the customer to provide this equipment.
- f. ISDN charges are in addition to existing Centrex charges.
- g. This service is available only from offices which have the necessary facilities to provide ISDN. In the event that a customer is served by a non-conforming central office, the Telephone Company may, at its option, provide ISDN service from an alternate serving central office at no additional charge to the customer. Such provisioning may be elected where, in the discretion of the Telephone Company, service can be provided at a reasonable cost to the Telephone Company. The customer must accept the serving location assigned by the Telephone Company, and must agree to revert to the normal serving central office at such time as ISDN service is made available in that office.

If ISDN service is provided from an alternate serving central office, the customer must accept a number change to one associated with the alternate serving central office. The customer will be subject to calling areas associated with the alternate serving central office as specified in the Telephone Company's tariffs or product guides.

\* See Section 1B of the Verizon Virginia Product Guide. CENTREX IntelliLinQ®-BRI will be grandfathered and no longer available to new customers on and after February 1, 2016. On and after February 1, 2016, existing customers can continue to make moves, adds and changes at existing locations only, but cannot establish service at new locations. CENTREX IntelliLinQ®-BRI continues to be available for resale until April 17, 2016; effective on and after April 17, 2016 the foregoing grandfathering terms shall apply to CENTREX IntelliLinQ®-BRI purchased for resale.

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### B. REGULATIONS (Cont'd)

- 4. Conditions (Cont'd)
  - g. (Cont'd)

When ISDN service is available from the customer's normal serving central office, the customer will revert to and accept a number change to one associated with the normal serving central office, and be subject to calling areas associated with the normal serving central office as specified in the Telephone Company's product guides. If the customer does not revert to service from the normal central office after ISDN service becomes available, but continues service from the alternate serving central office, charges for foreign exchange and/or foreign central office service will apply as specified in Section 3A.1 of the Verizon Virginia LLC Product Guide for Detariffed Services.

No charge will apply to transfer of this service back to the normal serving central office as set forth above.

In addition, the customer's service location must be within the distance limitations determined during installation of the service in the sole judgment and discretion of the Telephone Company. When a customer requests ISDN service and requires the installation of additional facilities due to exceeding the distance limitation determined by the Telephone Company and where, in the judgment of the Telephone Company, it is practical to provide such facilities, the customer will be charged rates and charges based on the cost of providing the necessary additional facilities, in addition to the rates and charges specified in C. following. These charges for any additional facilities required will be computed on an individual case basis.

- h. Electronic Key Feature availability is dependent on the facilities providing the service. No credit is given on the package rate for features where facilities and appropriate digital technology are not available.
- i. This Product Guide does not apply to the transmission of packet data on the B channel and requires either voice and/or data on one of the B channels.
- j. Centrex IntelliLinQ-BRI service does not preclude the Centrex customer from making or receiving circuit switched voice calls from inside or outside either their serving central office or their calling area. Where facilities are available the customer will be able to make and receive Circuit Switched Data and Packet Switched Data calls outside of their serving central office.

See Section 1B of the Verizon Virginia Product Guide. CENTREX IntelliLinQ®-BRI will be grandfathered and no longer available to new customers on and after February 1, 2016. On and after February 1, 2016, existing customers can continue to make moves, adds and changes at existing locations only, but cannot establish service at new locations. CENTREX IntelliLinQ®-BRI continues to be available for resale until April 17, 2016; effective on and after April 17, 2016 the foregoing grandfathering terms shall apply to CENTREX IntelliLinQ®-BRI purchased for resale.

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## CENTREX IntelliLinQ®-BRI (Effective 2/1/16 - :LA-2\*)

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# B. REGULATIONS (Cont'd)

- 4. Conditions (Cont'd)
  - k. Calls identified as circuit-switched data will be billed at Circuit Switched Data Usage rates even if the customer's equipment establishes the call as circuit-switched voice service and then transmits 56 kbps or 64 kbps circuit-switched data.

<sup>\*</sup> See Section 1B of the Verizon Virginia Product Guide. CENTREX IntelliLinQ®-BRI will be grandfathered and no longer available to new customers on and after February 1, 2016. On and after February 1, 2016, existing customers can continue to make moves, adds and changes at existing locations only, but cannot establish service at new locations. CENTREX IntelliLinQ®-BRI continues to be available for resale until April 17, 2016; effective on and after April 17, 2016 the foregoing grandfathering terms shall apply to CENTREX IntelliLinQ®-BRI purchased for resale.

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## B. REGULATIONS (Cont'd)

### 5. Electronic Key Features

Electronic Key provides the customer with the ability to access the following features:

#### a. Automatic Dial Line

This feature allows a station user to call a frequently dialed number by pressing the assigned feature key.

#### b. Automatic Line

An automatic connection between a calling station that goes off-hook and a predetermined location. The calling station does not receive dial tone.

### c. Bridging

Allows the user to bridge onto a currently active call by pressing the active call appearance button on their set and going off-hook and thus establishing a three-way call.

### d. Call Park

Allows a station to park a call against its own directory number. The parked call is retrieved from any station by dialing a feature-access code and the number against which the call is parked.

## e. Call Waiting Ringback - Intra-Centrex Only

The Call Waiting Ringback feature will allow the caller to hear a distinctive ringing if the called party is hearing the call waiting tone. This allows the caller to wait for the called party to answer.

### f. Delayed and Abbreviated Ringing

Allows the user to be alerted for a predetermined interval before ringing another designated set.

### g. Drop

Allows the user to drop the last party added to a conference call. For a two-party call, this will terminate the call.

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## B. REGULATIONS (Cont'd)

- 5. Electronic Key Features (Cont'd)
  - h. Executive Busy Override

This feature (EBO) specifies that the line can invoke an override when encountering a busy station.

Override Exempt

This feature (EBX) is an option of EBO and specifies that the line cannot have override activated against it by an EBO line.

i. Feature Function Button

Allows users to assign certain features to a particular button on their ISDN set. When depressed the button will activate the assigned feature.

j. Group Intercom

Enables a business set user to terminate on a member of a predesignated group by using abbreviated dialing.

k. Hold

Allows the user to place a call on hold.

I. Individual Calling Line Identification

Allows the user to have access to the directory number of the calling party.

m. Initiated Priority Calling

Allows the user to initiate a priority call by going off-hook and pressing the Priority Call feature button or dialing the priority calling access code. Provides the caller with the equivalent of Dial Call Waiting.

n. Inspect for ISDN Terminals

Allows the user to retrieve and display call-related information about any call appearance. The data that can be displayed is call appearance identification, called or calling directory number, incoming call identifier call type.

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## B. REGULATIONS (Cont'd)

- 5. Electronic Key Features (Cont'd)
  - o. Intercom

This feature allows a business set user to directly terminate on a predesignated set by pressing the intercom key.

p. Intercom Alerting

Provides the user with a distinctive ring and/or visual indicator to alert the user of an incoming intercom call.

g. Intercom Functions

Allows the user to emulate a dedicated wire to another station for priority conversations without tying up the station set from active or incoming calls.

r. Key System Coverage for Analog Lines

Allows an ISDN set to provide call coverage for an analog set.

s. Manual Exclusion

Allows the user to inhibit other stations from picking up a call on hold or bridging onto a call that is active at that station.

t. Multiple Call Appearances

Allows the user to have more than one appearance of their directory number assigned to their set.

u. Originating Priority Calling

Allows the user to have all calls that originate from their set to be priority calls.

v. Outgoing Called Line Identification for ISDN Sets

Provides a user originating a call with information about the called party and the facility or destination.

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## B. REGULATIONS (Cont'd)

- 5. Electronic Key Features (Cont'd)
  - w. Priority Calling Incoming Only

Allows the user to have a priority call terminate on their set from an outside call. This call will use the normal intergroup alerting as opposed to priority alerting.

x. Shared Call Appearances for a Directory Number

Allows a directory number to appear on the terminal of several users up to a maximum of 5.

y. Short Hunt

Permits incoming calls to hunt over a set of directory number appearances in search of an idle directory number on which to terminate.

- 6. X.25 Packet Data Features
  - a. Closed User Groups

Allows the user to establish subnetworks within which the members of the closed user group can communicate. Each data terminal in a closed user group can be arranged in one of the following modes:

(1) Closed User Group with Outgoing Access

The data terminal makes outgoing calls only.

(2) Closed User Group with Incoming Access

The data terminal receives incoming calls only.

(3) Incoming Calls Barred within a Closed User Group

The data terminal makes outgoing calls only to the data terminals in the closed user group with which it is associated.

(4) Outgoing Calls Barred within a Closed User Group

The data terminal receives incoming calls only from the data terminals in the closed user group with which it is associated.

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## B. REGULATIONS (Cont'd)

- 6. X.25 Packet Data Features (Cont'd)
  - a. Closed User Groups (Cont'd)
    - (5) Unrestricted Access

The data terminal receives and makes both incoming and outgoing calls.

b. Fast Select

Allows a sending data terminal to forward up to 128 bytes of data along with the call setup and clearing packets.

c. Fast Select Acceptance

Allows the switch to transmit incoming call packets with the fast select facility to a destination terminal that has this feature.

d. Flow Control Parameter Negotiation

Permits negotiation on a per call basis of the flow control parameters. Automatically negotiates the maximum packet size and window size for each direction of data transmission.

e. Hunt Groups

Allows a grouping of access lines such that an incoming packet switched data call to the hunt group is completed if there is a logical channel on any of the access lines within the hunt group. The Hunt Group cannot span switches.

f. Incoming Calls Barred

Prohibits a data terminal from terminating an incoming call.

g. Non-Standard Default Packet Sizes

Allows the user to subscribe to a larger maximum packet size for each direction of communication than the default 128 octets normally provided. In order to subscribe to this feature, the Flow Control Parameter Negotiation feature must also be subscribed to.

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## CENTREX IntelliLinQ®-BRI (Effective 2/1/16 - :LA-2\*)

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### B. REGULATIONS (Cont'd)

- 6. X.25 Packet Data Features (Cont'd)
  - h. Non-Standard Default Window Sizes

Allows the user to subscribe to the different values for outgoing and incoming window sizes than the standard network default. In order to have this capability, the user must also subscribe to the Flow Control Parameter Negotiation feature.

i. Outgoing Calls Barred

Prohibits a data terminal from originating outgoing virtual calls.

j. Permanent Virtual Circuit

Allows packet switching to be implemented over a dedicated logical channel without needing call set-up or clearing.

k. Throughput Class Negotiation

Allows the calling data terminal to request specific throughput classes in the call request packet for both directions of data transmission.

- 7. Virtual Office ISDN (VOI)
  - Virtual Office ISDN (VOI) provides the following IntelliLinQ BRI services and features for a single monthly
    rate:

Multiple Access IntelliLinQ BRI – including the following system features:

- Circuit-Switched Data on the B channel(s)
- Alternate Circuit-Switched Voice and Data on the B channel(s)
- Configuration Group

<u>Electronic Key Feature Package</u> - the user has the option to order the other features within this package. The features below must be a part of this offering:

- Three Call Appearances
- Individual Calling Line Identification
- Hold
- Drop
- Transfer
- Conference
- Call Forwarding Variable

<u>Unlimited Circuit-Switched Data Local Usage</u> – the user is not billed for Local Circuit-Switched Data usage.

See Section 1B of the Verizon Virginia Product Guide. CENTREX IntelliLinQ®-BRI will be grandfathered and no longer available to new customers on and after February 1, 2016. On and after February 1, 2016, existing customers can continue to make moves, adds and changes at existing locations only, but cannot establish service at new locations. CENTREX IntelliLinQ®-BRI continues to be available for resale until April 17, 2016; effective on and after April 17, 2016 the foregoing grandfathering terms shall apply to CENTREX IntelliLinQ®-BRI purchased for resale.

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## B. REGULATIONS (Cont'd)

- 7. Virtual Office ISDN (VOI) (Cont'd)
  - b. Conditions:

The customer may have no more than two packages per premise.

The total monthly rate applies whether or not all of the features in the package are activated.

VOI is only available on classes of service that are measured services.

The customer may purchase the package on a month-to-month basis or on a contract basis for two, three, or five years.

Minimum service requirement is one month for month-to-month. For contract rates, the minimum service requirement is determined by the contract.

If a customer under a two-year contract terminates service during the first year of the contract, the customer will pay early termination charges. If the customer terminates service after the twelfth month of service, the customer will not pay termination charges. The customer must contact the Telephone Company prior to the end of the contract period in order to renew the contract for additional periods of time. The customer may renew for two, three or five years. If the customer does not renew before the end of the contract period, the rate will revert to the month-to-month rate.

The customer under a three or five-year contract must contact the Telephone Company prior to the end of the contract to renew the contract. The customer has the option to renew for two, three or five years. If the customer does not renew before the end of the contract, the rate will revert to the month-to-month rate. If the customer terminates service during the initial or any renewal period of the contract, early termination charges will apply.

Early termination charges will be calculated by taking the difference between the month-to-month rate and the contract rate and multiplying by the number of months in service.

All regulations and conditions for IntelliLinQ BRI service apply to this offering.

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#### C. RATES

- Application of Rates
  - a. IntelliLinQ-BRI Access
    - (1) Service Capabilities Charges
      - (a) Monthly Rate

The monthly rates for Service Capabilities applies per Service Capability provided.

(b) Installation Charge

The Installation Charge applies per termination for the installation and the move of the **IntelliLinQ**-BRI Access.

- (c) Centrex IntelliLinQ-BRI service allows 10 Configuration Groups to be established at the initial implementation of service. Subsequent additions of Configuration Groups or Configuration Groups beyond the first 10 will incur a nonrecurring charge per Configuration Group.
- (2) Change Charge

The Change Charge applies per Centrex **IntelliLinQ**-BRI Service for customer-requested changes to or adding call appearances, adding or changing features in an existing configuration group, adding or changing **IntelliLinQ**-BRI features.

(3) Configuration Group Charge

The Configuration Group Charge applies per configuration group established in excess of 10 groups at the time of the initial establishment of **IntelliLinQ**-BRI and any configuration group requested after the initial establishment of service.

Effective: March 5, 2024

### CENTREX IntelliLinQ®-BRI (Effective 2/1/16 - :LA-2\*)

### C. RATES

2.	Rates	and C	Charges -	Installation Charge	Per <u>Month</u>	<u>USOC</u>
	a.	Chan	ge/Add Charge	\$12.00		
	b.		guration Group Charge, roup established	32.00		
	C.	Featured Voice IntelliLinQ-BRI Access, per Centrex line†		\$46.00	\$12.00	
		D Channel Packet-Switched Data, per service provided#		23.00	9.00	
	d.	Multip	ole Access IntelliLinQ†	22.00	8.00	
		(1)	Each Voice service, per service provided	24.00	6.50	
		(2)	Circuit-Switched Data Service, per service provided	13.00	8.50	
		(3)	Alternate Circuit-Switched Voice and Data Service, per service provided	13.00	8.50	
		(4)	D Channel Packet-Switched Data, per service provided#	23.00	7.00	
		(5)	Circuit-Switched Data Usage, per minute or fraction thereof, per B Channel††	-	0.02	
	e.	Interd	com Group, per group established	19.00	-	

- † IntelliLinQ-BRI rates and charges are in addition to other applicable Centrex service arrangement rates and charges as specified in the appropriate Intrastate Tariffs and this Product Guide.
- # Customers subscribing to D Channel Packet-Switched Data will be billed for Public Data Network (PDN) service as specified in appropriate tariffs and for Direct Access as specified in the appropriate tariffs for calls outside their Centrex group. (T)
- †† Originating circuit-switched data calls placed outside the Centrex will be charged on a minute-of-use basis.
- \* See Section 1B of the Verizon Virginia Product Guide. CENTREX IntelliLinQ®-BRI will be grandfathered and no longer available to new customers on and after February 1, 2016. On and after February 1, 2016, existing customers can continue to make moves, adds and changes at existing locations only, but cannot establish service at new locations. CENTREX IntelliLinQ®-BRI continues to be available for resale until April 17, 2016; effective on and after April 17, 2016 the foregoing grandfathering terms shall apply to CENTREX IntelliLinQ®-BRI purchased for resale.

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Effective: October 15, 2016

## CENTREX IntelliLinQ®-BRI (Effective 2/1/16 - :LA-2\*)

# C. RATES (Cont'd)

2.	Rates	and Cl	narges (Cont'd)	Installation Charge	Per <u>Month</u>	USOC		
	f.	Virtu	Virtual Office ISDN (VOI)					
		(1)	Month-to-Month	\$100.00	\$72.00 (R)			
		(2)	Optional Payment Plan (OPP)					
			24 months	100.00	40.00 (R)			
			36 months	75.00	40.00 (R)			
			60 months	75.00	37.00 `			

<sup>\*</sup> See Section 1B of the Verizon Virginia Product Guide. CENTREX IntelliLinQ®-BRI will be grandfathered and no longer available to new customers on and after February 1, 2016. On and after February 1, 2016, existing customers can continue to make moves, adds and changes at existing locations only, but cannot establish service at new locations. CENTREX IntelliLinQ®-BRI continues to be available for resale until April 17, 2016; effective on and after April 17, 2016 the foregoing grandfathering terms shall apply to CENTREX IntelliLinQ®-BRI purchased for resale.