

Verizon North LLC

INTEGRATED SERVICES DIGITAL NETWORK - PRIMARY RATE INTERFACE (ISDN-PRI)

A. General

- a. Integrated Services Digital Network (ISDN) - Primary Rate Interface (PRI) is a central office based service arrangement that is an alternative for individual access services, such as Direct Inward Dialing (DID), Direct Outward Dialing (DOD), 800/888 Services, Wide Area Telecommunications Services, and local business trunks.
- b. ISDN-PRI is provisioned on a clear channel 1.544 megabit per second (Mbps) facility and uses the ISDN architecture of 23 "B" channels and one "D" channel or 24 "B" channels to provide the customer with the capabilities of simultaneous access, transmission and switching of voice, data and imaging services via channelized transport.
- c. ISDN-PRI provides the capability to transport customer information in the form of circuit-switched voice or data up to 64 Kbps over any "B" channel. One "D" channel can control up to 20 PRI trunks. In these cases, a single "D" channel in one ISDN-PRI trunk handles all signaling and control functions of the other trunks in the arrangement, which allows supplemental trunks to consist of 24 "B" channels.

B. Regulations

Intermediary Customer (IC) Services

"B" channels may be dedicated or to interconnect with various services provided by other service providers, such as Interexchange Carriers or Competitive Access Providers. The customer shall be responsible for the ordering of these services.

- a. ISDN-PRI service is available from serving central offices equipped with the necessary "clear channel" facilities to provide ISDN-PRI service. Feature availability and service capabilities are dependent on the facilities and the digital technology providing the service.
- b. Customer Provided Equipment (CPE) must be NI-2 compliant. Any CPE that requires custom switch features not supported in the NI-2 specification may be supported as an exception and priced on an individual case basis. Custom ISDN features based in specific switch types may be provided on individual case basis.
- c. The service is available from central offices that have the necessary facilities to provide ISDN-PRI service and the customers serving wire center is ISDN-PRI capable. In the event, the local serving office is not so equipped, the Telephone Company will provide PRI service from an alternate (or foreign) serving central office (determined by the Telephone Company), within the same calling scope at no additional charge to the customer.
- d. When a customer's serving office is not suitably equipped and the customer chooses to subscribe to ISDN-PRI Service from another Telephone Company designated ISDN-PRI central office, the customer will utilize the dialing plan associated with the designated ISDN-PRI central office. The PRI Access and PRI Switched Facility Charges will apply in addition to the Foreign Central Office/Foreign Exchange Special Transport and/or Interoffice Channel Termination rates. These charges are also applicable when a customer's serving central office is ISDN-PRI capable and the customer wishes to be served from another ISDN-PRI capable office. Foreign Central Office/Foreign Exchange Special Transport and /or Interoffice Channel Termination rates are not applicable when the customer's serving office is part of a Remote Switching Cluster as defined elsewhere in this Guide.

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B. Regulations (Continued)

Intermediary Customer (IC) Services (Continued)

- e. This Guide provides for PRI switching capabilities only and additional services must be subscribed to under separate sections of this Guide. Each ISDN-PRI trunk group is provided with one telephone number per channel.

Additional numbers may be purchased at the rates specified in the DID service section of this Guide. Rates and charges for DID service apply.

Rates and charges for the OutWATS/800 accessible service apply. The appropriate charges are the monthly WATS Access line and the usage charges.

- f. This Guide does not provide for the transmission of packet data on the "B" or "D" channels, but can be provided on an individual case basis.
- g. Customers under contract who disconnect PRI services before the expiration of the contract period shall pay an early termination liability charge in the first twelve months equal to the full monthly rate plus 25% of the monthly rate for the remaining contract. After 12 months the customer shall pay 25% of the monthly rate for the remaining contract. Termination Liability will not apply to the ISDN PRI Facility when customers upgrade their ISDN PRI service to be provisioned over other facilities with a bandwidth greater than 1.544 Mbps.
- h. During the initial contract period, the customer may add PRI services at the same monthly rate specified in the initial contract or the customer may add PRI services on a month to month or contract basis. The contract period for these additional PRI services will not end concurrently with the initial contract for services installed after September 3, 2003.
- i. If a customer discontinues other Telephone Company services and establishes ISDN-PRI that utilizes the same facilities (i.e., Digital Channel Service) the nonrecurring charge associated with the ISDN-PRI facilities (DS1 facilities) will be waived for the same quantity replaced by the ISDN-PRI facilities to which the customer currently subscribes. The nonrecurring charges associated with the ISDN-PRI access portion of the new service applies in all instances.
- j. The PRI Subsequent Activity Charge (SAC) is applicable for any changes to customer configurations after the initial installation. The SAC is applicable per occurrence and not based on the number of trunks.
- k. Customers currently subscribing to ISDN-PRI service under an Individual Case Basis (ICB) contract will be allowed to continue their service at the existing rates for the length of their individual contracts. At the end of the contract period, if a customer chooses to continue his ISDN-PRI service consistent with this Guide, the Guide rates in effect at that time will apply.
- l. Remote Switching Clusters exist when the remote switch is dependent on the host switch for its software call processing. A remote switch can process only intra-office calls without the host switch.

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B. Regulations (Continued)

Intermediary Customer (IC) Services (Continued)

- m. Customers may utilize alternate high capacity digital facilities, (i.e. DS1, DS3, or any other compatible high capacity digital facility that meets specifications as determined by the Telephone Company) in lieu of the PRI Switched Facility specified herein. The applicable rules, regulations, and rates from the appropriate Telephone Company Tariff will apply for the alternate high capacity digital facilities.
- n. The PRI Access System Term & Volume Packages include the PRI Access, and the Channel Activation's and the features listed above. The DS1 Switched Facility will be in addition to the System rates.
- o. Customers with existing PRI contracts may convert to a new contract plan without incurring termination liability charges provided the value of the new contract is equal to or greater than the remaining value of the existing contract plan.
- p. All of a customer's Telephone Company provided PRIs within a state will count towards the volume contract threshold. Volume contract customers may change the number of PRIs during the volume term period. In the event customers under a volume contract make subsequent PRI increases or decreases that cause the total number of PRIs to fall within a different threshold level, all remaining PRIs will be billed at the applicable level rate for the remainder of the volume contract term period. The customer must provide the account information of the PRIs included in the volume contract at the time of the initial installation of service and with each change to the service.
- q. Termination Liability – The termination Liability will follow the Standard Termination for all services as defined in the General Definitions, Section 2 of the Telephone-Pa. P.U.C. No. 4 Tariff. Termination Liability will not apply to the ISDN PRI Facility when customers upgrade their ISDN PRI service to be provisioned over other facilities with a bandwidth greater than 1.544 Mbps

Where a customer's ISDN-PRI Service interconnects with an Intermediary Customer (IC) (Interexchange Carrier or other service provider), PRI Access is only permitted within a single customer's ISDN-PRI Service Arrangement. Access to the Telephone Company's network exchange or switched services are not permitted.

- r. Two-year volume contract customers may subscribe to 3-year contract PRI features and facilities when 2-year contract rates are not available.
- s. PRI Station Detail Billing is only available with message/measured usage service. Individual PRI Station Call Detail is for informational purposes only. Exact billing information is located in the Measured Call Summary portion of the bill.

The Customer's ISDN Primary Service must be equipped with Calling Party Default Directory Number and the Calling Party Screening option. Customers will not have the option to change the Calling Party Number and CPN may not be deleted. Customers will have the option to define a partial listing in the screening list. Specific call details will not be provided for stations not included in the screening list. The screening list may not include 800 numbers, fictitious numbers, private network numbers or Centrex Dialing Plan numbers defined in the screening tables. Station Call Details will only be provided for valid telephone numbers within the switch providing the customer's ISDN Primary Service.

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C. PRI Features

The following features are offered to the customer.

- a. Calling Number Identification is a standard feature within a system between an ISDN-PRI Service and a CentraNet® System or between two or more ISDN-PRI Services belonging to the same customer.
- b. "D" Channel Back-Up automatically takes over for a failed "D" channel in case of trouble. This may be subscribed to as part of a 23B+D Channel Back-Up arrangement.
- c. Call-by-Call Service Selection provides an option to the dedicated channel configuration by allowing channels to be configured to access multiple services on a per call basis. With this feature, separate facilities are not required for individual services, such as DID, DOD, WATS, 800/888 services, and local switched access lines.
- d. Clear Channel Capability allows the customer to transport 64 Kbps over the PRI channels with no constraint on the quantity or sequence of bits using the "Bipolar with Eight Zero Substitution" method of providing bit sequence independence.
- e. Non-Facility Associated Signaling (NFAS) allows the D-channel signaling entity to assign calls to channels on more than one interface (including the one containing the D-channel). The collection of these B-channels and the controlling D-channel is called a PRI group. Up to 20 DS1 Facilities can be assigned to a PRI group.
- f. Calling Line Identification With Name – Allows the user to have access to the directory number and name of the calling party.
- g. Tie Channel Service - provides intercom capability on "B" Channels of ISDN PRI Arrangements and other digital CentraNet systems within the same subscriber network (Central Office to Central Office). This feature provides the capability to communicate on a private facility basis, as a tie line between CentraNet systems served from different central offices. Tie Channels on a single ISDN PRI Arrangement can be configured for intercom calling to a CentraNet system and local exchange access for the CPE. Intercom calls between an ISDN PRI Arrangement and a CentraNet system do not incur usage charges. Calls to telephone numbers outside of a CentraNet system without intercom may incur usage charges.

The Channel Service may terminate on CPE at the customer location or at an Intermediary Customer (IC) location. Rates for the Tie Channel Service to Customer Premises or Central Office to Central Office are available on a per "B" channel basis or on a per PRI basis when 10 or more "B" channels are activated. Rates for Tie Channel Service to an IC are available on a per "B" channel basis or on a per PRI basis when 5 or more "B" channels are activated.

When the PRI Tie Channel Service option is augmented with Centranet features to integrate Centranet service with Voice Over Internet Protocol (VOIP) applications, an additional PRI INTERCOM - VOIP NRC rate is required as defined in the Rates Section of this Guide. PRI's that only require the Intercom functionality do not require an additional NRC.

Tie Channel Service is available where facilities and conditions permit.

Tie Channel Service will not be provided on a Call by Call Access basis.

- h. PRI Station Detail Billing provides individual station call details for all stations utilizing a customer's ISDN Primary Service at an account level on a monthly basis. These details are provided with the normal customer bill or on the Verizon Communications Inc. website via the Internet. PRI Station Detail billing is only available with message/measured usage service. Individual PRI Station Call Detail is for informational purposes only. Exact billing information is located in the Measured Call Summary portion of the bill.

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D. Rates and Charges

	<u>Monthly Rate</u> ₂	<u>Nonrecurring Charge¹</u> ₂
a. ISDN-PRI Facility		
b. ISDN-PRI Access		
12-Month Contract	\$500.00 (I)	\$500.00
36-Month Contract	380.00 ³	500.00 ³
60-Month Contract	340.00	500.00
c. Channel Activations, per channel		
Voice Channel Activation (Flat Rate)	15.00	-
Data Channel Activation (Measured)	5.00	-
d. Channel Usage		
Voice/Data Channel Usage	4	-
e. Subsequent Activity Charge, per occurrence	-	200.00
f. Calling Line Identification with Name, per PRI Arrangement		
Month-to-Month	85.00	
1-Year Contract	100.00 (I)	
2-3-Year Contract	70.00	
5-Year Contract	65.00	
g. Tie Channel Service to Customer Premises or Central Office to Central Office, each		
Per "B" Channel	10 00	
Per PRI (10+ "B" Channels Activated)	100.00	
PRI Intercom - VOIP Capability Package, Per 100 station numbers or fraction thereof ⁵		300.00

¹ The nonrecurring charges specified below are in lieu of service charges listed in Section 3 of the Telephone-Pa. P.U.C. No. 4 Tariff.

² The applicable rates and charges for the ISDN-PRI Facility are the monthly and nonrecurring charges for 1.544 Access Line and Special Transport, as specified in Section 4 of this Guide. In addition, an ISDN-PRI Subscriber Line Charge as specified in the GSTC FCC No. 14 Tariff will apply.

³ Effective January 30, 2007, 36-Month ISDN-PRI Access Contract is grandfathered to existing customers and is not available for new installations. Moves, additions or changes are not permitted.

⁴ The applicable rates for Local Calling Area Voice/Data Channel Usage are the local usage charges as specified in Pa. P.U.C. No. 5, Section 1A, Paragraph D.

⁵ When the Tie Channel Service option is provisioned to integrate the CentraNet features and Voice Over Internet Protocol (VOIP) applications, an additional PRI INTERCOM - VOIP NRC rate is required. This rate does not apply for applications that use only Intercom functionality between a PRI and a Centrex. PRI Intercom - VOIP Capability Package NRC applies to ALL rate plan options.

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D. Rates and Charges (Continued)

	<u>Monthly Rate</u>
h. Tie Channel Service to Intermediary Customers (IC), each	
Per "B" Channel	\$20.00
Per PRI (5+ "B" Channels Activated)	100.00
i. Term & Volume	
PRI Access System – Flat Rate	
Ports – 23B, 23B+D Add'l, 24B, each	
Package 1, 1 to 10 PRIs	
2 year	565.00
3 year	535.00
Package 2, 11 to 20 PRIs	
2 year	540.00
3 year	520.00
Package 3, 21+ PRIs	
2 year	520.00
3 year	490.00
PRI Access System – Measured	
Ports – 23B, 23+D Add'l, 24B, each	
Package 1, 1 to 10 PRIs	
2 year	390.00
3 year	335.00
Package 2, 11 to 20 PRIs	
2 year	350.00
3 year	310.00
Package 3, 21+ PRIs	
2 year	315.00
3 year	290.00
PRI Switched Facility for 2 or 3 year Term & Volume Contract	145.00
j. PRI Station Detail Billing, per account	100.00