

Schedule No. A-31

APPROVED

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

A. GENERAL DESCRIPTION

Integrated Services Digital Network (ISDN) Primary Rate Interface (PRI) is a local telecommunications service that provides customers who have PBX or PBX-like equipment to transmit circuit switched voice and data simultaneously over the same digital facility. Primary Rate services are delivered over a channelized 1.544 Mbps DS1 carrier (T1 facility).

B. PRIMARY RATE INTERFACE (PRI) SERVICE ARRANGEMENT

1. The ISDN-PRI arrangement provides a total of twenty-four digital communications channels within a single physical facility. Twenty-three of these channels are called Bearer, or B Channels. The other channel is called the Delta or D Channel. This standard PRI configuration is referred to as 23B+D.
 - a. **B Channel** - The B Channel is a bi-directional synchronous channel capable of supporting digital transmission speeds of 64 kilobits per second (kbps). Each B Channel of a PRI may carry Circuit-Switched Voice or Circuit-Switched Data.
 - b. **D Channel** - The D Channel is a 64 kbps digital channel that carries signaling and control for the B Channels associated with a PRI arrangement.
2. **Multiple PRI Arrangement** – For applications which require more than 23 B Channels, multiple PRI facilities can be assigned to a PRI arrangement. With a multiple PRI arrangement, the D Channel in the first PRI facility is used for signaling for all PRI facilities. The first PRI would be configured as 23B+D and the other PRIs would be configured as 24B. This use of Non-Facility Associated Signaling (NFAS) allows the overhead of the D Channel to be distributed over multiple PRI facilities, thereby increasing channel efficiency.

(N)

(N)

(Continued)

(To be inserted by utility)
Advice Letter No.: 204A

Decision No.:

Issued by
Jeffrey Jung
NAME
Vice President
TITLE

(To be inserted by Cal.P.U.C.)
Date Filed: June 5, 2009
Effective: July 5, 2009
Resolution No.:

Schedule No. A-31

APPROVED

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

C. CIRCUIT SWITCHED SERVICES

(N)

Circuit Switching is a switching arrangement in which an entire circuit or B Channel is dedicated to a given call. The circuit is connected on a per call basis and can carry circuit-switched voice or circuit-switched data.

1. **Clear Channel Capability** - Clear Channel Capability allows the full bandwidth on the "B" channel (64 kbps) to be available to the customer with no constraint on quantity or bit sequence. However, ISDN interconnection to non-ISDN equipped central offices will be potentially subjected to analog transmission or sub-rated to 56 kbps.
2. **Dedicated Trunk Groups** - The B Channels of a PRI can be dedicated for calls to and from the public network including: Incoming, Outgoing, 2-way, Direct Outward Dialing (DOD) or Direct Inward Dialing (DID).
3. **Call-By-Call Service** - Call-By-Call (CBC) feature offers access to additional services such as Foreign Exchange and Tie Trunks via the B Channels of an ISDN-PRI. With this feature, any B Channel on the PRI can be used to offer the above services on a per-call basis in addition to trunk calls to/from the public network (i.e., DOD/DID).
4. **Multiple Directory Numbers** - Each PRI includes an individual directory number. Additional directory numbers, a range of Direct Inward Dial (DID) directory numbers, or several ranges of DID directory numbers can be optionally added.
5. **Advanced Calling Services** - ISDN-PRI can support access to the following Advanced Calling Services (also called CLASS services) from suitably equipped CPE:
 - a. **Caller ID - Basic**- This feature allows the central office and the customer's equipment to communicate the calling party's directory number on calls carried by the Primary Rate service. The number can then be made available to be displayed on a properly equipped telephone set or adjunct equipment.

(N)

(Continued)

(To be inserted by utility)
Advice Letter No.: 204A

Decision No.:

Issued by
Jeffrey Jung
NAME
Vice President
TITLE

(To be inserted by Cal.P.U.C.)
Date Filed: June 5, 2009
Effective: July 5, 2009
Resolution No.:

Schedule No. A-31

APPROVED

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

D. REGULATIONS AND CONDITIONS

1. Unless specifically exempted, ISDN services shall be subject to all general regulations applicable to the provision of service by the Telephone Company as stated in the general tariff.
2. ISDN-PRI is provided at the option of the Company. These services are furnished subject to central office switching capacity, capability, and the availability of outside plant facilities.

The availability, functionality, and capabilities of ISDN-PRI may vary, or may not be available, dependent upon type of serving central office switch, related software controlling that switch and associated outside plant.

- a. Where facilities are not available, or unusual expenditures are involved in making them available, the customer may be required to pay additional charges to cover the unusual expenditure, or to contract for services beyond the normal service term, or both.
 - b. If a customer requests a special service or feature not specified in this tariff, additional rates for that service or feature may apply.
3. The minimum charge period for services provided under this tariff is one month.
 4. The service is provided on a month-to-month basis.
 5. Suspension of service is not allowed.
 6. One directory listing is provided without charge for each ISDN-PRI arrangement. Additional listings may be provided as specified for Additional Listing Service in the Rates & Charges section of this ISDN-PRI tariff.
 7. Normal toll charges shall apply to calls that are made outside of the Local Service Area.

(N)

(N)

(Continued)

(To be inserted by utility)
Advice Letter No.: 204A

Decision No.:

Issued by
Jeffrey Jung
NAME
Vice President
TITLE

(To be inserted by Cal.P.U.C.)
Date Filed: June 5, 2009
Effective: July 5, 2009
Resolution No.:

Schedule No. A-31

APPROVED

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

D. REGULATIONS AND CONDITIONS (Continued)

8. Customer Premises Equipment (CPE):

- a. This tariff does not include terminal equipment on the customer's premises. Terminal equipment may be covered under a separate tariff, sold or leased separately by the Telephone Company (under a separate contract), or may be provided by the customer. The CPE must be compatible with the Company's ISDN-PRI offering.
- b. The Telephone Company shall not be responsible for changes in any of the equipment, operations, or procedures of the Company utilized in the provisioning of ISDN services, which render any facilities provided by the customer obsolete or require modification of such equipment or system, or otherwise affect its use or performance.
- c. The customer is responsible for providing the power required for any and all CPE connected to an ISDN-PRI.

9. The Telephone Company shall not be liable for any loss or damages arising out of error, interruptions, defects, failure, or malfunctions of ISDN services or associated equipment. Damages arising out of such interruptions, defects, failures, or malfunctions of the services after the Telephone Company has been notified, and has reasonable time for repair, shall in no event exceed an amount equivalent to the charges made for the service affected for the period following notice from the customer until service is restored.

10. Service Establishment Charges do not apply for the establishment of the Communication Channels when the customer signs an agreement to subscribe to ISDN-PRI for a minimum of 3 years. If the customer discontinues service prior to the conclusion of the 3 or 5 year agreement, the customer will incur a disconnection charge equal to the Service Establishment Charges. The disconnection charge will not apply if the customer purchases other services from the Company that replace ISDN-PRI service.

11. It is the customer's responsibility to provide, and update if necessary, accurate Automatic Number Identification (ANI) and Automatic Location Identification (ALI) sub-address information to the 911 database administrator. Once the customer provides ANI and ALI sub-address information to the 911 database administrator, it is the responsibility of the Company to provide the location of the pilot number to the PSAP for 911 calls, and where technically and operationally feasible the Company will deliver ANI to the PSAP at a station level behind a Multi-line Telephone System.

ISDN PRI is capable of providing ANI and ALI sub-address information when connected to a Multi-Line Telephone System with sub-address capability.

(Continued)

(To be inserted by utility)
Advice Letter No.: 237

Decision No.: D.13-07-019

Issued by
Joel Dohmeier
NAME
Vice President
TITLE

(To be inserted by Cal P.U.C.)
Date Filed: October 11, 2013
Effective: October 15, 2013
Resolution No.:

(N)
|
(N)

Schedule No. A-31

APPROVED

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

E. RATES AND CHARGES

ISDN Service	Monthly Rate	Service Establishment (Nonrecurring Rates)
1. ISDN-PRI ACCESS: a. DS1 Facility	\$230.00	\$650.00
2. PRI Arrangement:, per arrangement a. 23B Channels plus 1 D Channel, OR 24B Channels (Multiple PRI Arrangement)	\$450.00	\$525.00
b. T1/PRI Rearrangement Charge (when a customer already has a T1 facility)	N/A	\$525.00
c. Directory Numbers: Primary Directory Number	Included	Included
Additional Directory Numbers	See Directory Listings Tariff	See Directory Listings Tariff
3. CIRCUIT SWITCHED FEATURES: a. Clear Channel Capability	No Charge	No Charge
b. Call-by-Call Services: 1) <i>Public Network Calls</i> (incoming, outgoing or 2-way trunk calls)	\$17.85 per channel	\$175.00 per PRI
2) <i>DID</i> (1)	\$17.85 per channel	\$175.00 per PRI
c. Advanced Calling Services: Caller ID - Basic (per PRI)	\$4.50	No Charge
4. OTHER CHARGES: a. Subsequent Feature Additions/Changes: Feature Additions/Changes per PRI	N/A	\$90.00
b. Move Charge To Move ISDN-PRI Service, per PRI	N/A	\$90.00

(1) The rates for DID blocks of numbers are provisioned under the Company's DID tariff

(N)

(Continued)

(To be inserted by utility)
 Advice Letter No.: 204A

Decision No.:

Issued by
Jeffrey Jung
 NAME
Vice President
 TITLE

(To be inserted by Cal.P.U.C.)
 Date Filed: June 5, 2009
 Effective: July 5, 2009
 Resolution No.: