

# Integrated Services Digital Network (ISDN)

Fact sheet

## Primary Rate Interface (PRI)



### Voice Services

ISDN PRI is a local exchange access service that creates a direct digital connection between your network and a Verizon central office to provide voice, data, image, and video services on a single circuit or line. It supports voice and data applications over the industry standard 1.544 Mbps Time Division Multiplex.

PRI is used for applications that require data integrity, secured bandwidth, and/or reliable speeds.

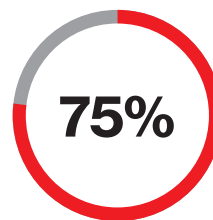
### Help control costs by reducing the number of PRI connections needed:

- **Consolidate communications:** Local, long distance, voice, and digital data calls are provided over the same PRI connection.
- **Trunking efficiency:** With rapid call set up, the ability to support multiple call types and call-by-call service selection we can create efficiencies for you, helping reduce the number of trunks required.
- **Flexibility:** We assign the right channels to support multiple call types enabling flexibility on the PRI trunk group.
- **Control Costs:** Competitive local service pricing and discount plans are available to help provide a cost effective solution based on your calling patterns.

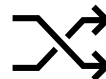
### Help manage your communications infrastructure, and service customers better:

- **Manage call flow:** Virtual Facility Group (VFG) allows you to allocate circuit capacity (not physical circuits) for a given service type (inbound and outbound calls).
- **The power of information:** The ability to receive Caller ID information on inbound calls makes ISDN PRI-Local ideal for call center applications. ISDN PRI-Local allows customers to access caller account information, helping serve their clients more efficiently.
- **DID capable:** This is the ability to support Direct Inward Dialing (DID) to stations on a per-call basis, alleviating the need for calls to be answered and transferred by a receptionist.

### The Verizon PRI advantage:



Verizon has a nationwide footprint and currently has the capability to serve over 75 percent of the businesses in the U.S. with our PRI product. This allows you to have one communications partner to cover more of your office locations.



Equipped with an easy to use interface and designed to enable you to migrate easily to IP communications.

### ISDN PRI Basic Components

- **Primary Rate Access Facility:** a high capacity access path which offers a transmission speed of 1.544 Mbps for communication from a Central Office to the customer premises. High capacity facilities such as DS3, SONET, etc. are available upon request.
- **PRI Interface Arrangement:** is a configuration of the bandwidth provided on the Primary Rate Access Facility (pipe), based on the customer's equipment and business needs.

### ISDN PRI Channel Configurations

- **23B + D Channel:** D Channel is for signaling and control functions.
- **23B+ Backup D Channel:** Service arrangement provides a backup D channel as a standby in the event the primary D channel fails.
- **24B Channel:** One D Channel can supply the signaling for up to 20 PRI pipes.

### Other Components of ISDN PRI

- **64 Kbps Clear Channel Transport:** Provides full data bandwidth for sending and receiving circuit-switched data over the B channel.
- **B (Bearer) Channels:** Customer information, in the form of Circuit Switched Voice or Circuit Switched Data up to 64kbps, can be transported over any B Channel. B Channels are designated for specific services such as one, or a combination of the following:
  - Direct Inward Dial (DID)
  - Direct Outward Dial (DOD)
  - Wide Area Telephone Service (WATS)
  - Toll Free Trunks
  - Two-Way Trunks
- **D (Delta) Channels:** Channels that carry signaling and set-up information for all calls.

#### Key optional features:

- Backup D Channel
- Calling Party Valid Directory Numbers with Screening
- Calling Line ID with Number
- Calling Line ID with number and caller ID with name and number \*
- DID blocks of #'s

\*Certain PRI plans may include some of these optional features at no additional costs.