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## SECTION 11 - ADVANCED DIGITAL SERVICES

### ADVANCED DIGITAL SERVICES (ADS) BASIC RATE ACCESS (BRA)

#### 11.A.3 PACKET-SWITCHED DATA SERVICE DESCRIPTIONS

Packet Switching is a service in which packets of data are individually addressed and combined on a transmission path with other addressed packets. Packet-Switched Data Service provides the ability to originate and receive X.25 packet data calls. X.25 is the Consultative Committee on International Telephone and Telegraph's (CCITT) recommended and internationally accepted standard for connecting data terminals to packet-switched networks.

D-Channel Packet - This service provides packet data on the D Channel at a maximum transmission throughput of up to 9.6 kbps per logical channel.

B-Channel Packet - This service provides packet data on the B Channel at a maximum transmission throughput of 64kbps per logical channel.

The customer may choose among the following Packet-Switched features (where available) based upon application needs:

- A. Hunt Groups - An arrangement that allows an incoming call to a busy packet directory number to search through a predetermined list of packet directory numbers in search of a non-busy logical channel to complete the call. The hunting arrangement may be linear or circular.
- B. X.25 Data Services:
  - 1. Logical Channels - An arrangement that is a virtual circuit, offering multiple logical connections at the packet level of X.25. Logical Channels allow multiple packet calls (or virtual calls) to be active simultaneously on a single D Channel or B Channel.
  - 2. DTE Support Feature - The Data Terminal Equipment (DTE) Feature allows the network to prevent any network-to-user signaling on a virtual circuit associated with a directory number that is not included in the X.25 version. Virtual circuit communication is allowed between the subscriber's equipment and remote customer equipment that conforms to the X.25 version. This feature is available on a per directory number basis.
  - 3. RPOA Selection - The Recognized Private Operating Agency (RPOA) arrangement allows the user to specify an Inter-Exchange Carrier or transit network for inter-network calls on a per call basis.
  - 4. Incoming/Outgoing Calls Barred - This arrangement can either be used to prohibit a data terminal from receiving an incoming call or from originating outgoing calls.

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