

January 13, 2026
Via Web Filing

Matthew L. Homsher, Commission Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Bldg.
400 North Street 2nd Floor
Harrisburg, PA 17120

RE: Verizon North LLC
Telephone - Pa. P.U.C. No. 1

Dear Mr. Homsher:

Herewith, for filing with the Commission in accordance with Public Utility Commission procedures, is Verizon North LLC's ("Verizon" or "Company") proposed tariff changes.

The following tariff pages are enclosed:

Verizon North LLC, Telephone Pa. P.U.C. No. 1

Section 17, 2nd Revised Sheet 1
Section 17, 1st Revised Sheets 2 -37
Section 17, 2nd Revised Sheet 38
Section 17, 1st Revised Sheet 38.1

With this filing, Verizon North LLC is proposing to sunset Integrated Services Digital Network (ISDN) Basic Rate Interface Service which will no longer be available to new customers effective February 13, 2026. Moves, changes, or modifications to this service will no longer be supported and service modifications for customers with existing contracts will be subject to the terms of their contracts.

Also enclosed is a copy of the customer notice.

The Company requests that the Commission allow this filing to become effective on February 13, 2026.

Any questions you may have regarding this filing should be directed to the attention of Jacqueline M. McGirr at Jacqueline.M.McGirr@verizon.com. Thank you for your assistance in this matter.

Sincerely,

/s/ Sharon Thomas

Sharon Thomas
Consultant

cc: Office of Consumer Advocate (telco@paoca.org)
Office of Small Business Advocate (ra-sba@pa.gov)
J. McGirr – Verizon

Attachments

Description of Filing

Verizon North LLC is proposing to sunset Integrated Services Digital Network (ISDN) Basic Rate Interface Service which will no longer be available to new customers effective February 13, 2026. Moves, changes, or modifications to this service will no longer be supported and service modifications for customers with existing contracts will be subject to the terms of their contracts.



October 14, 2025

Business Name
Billing Address 1
Billing Address 2
City, State Zip

Re: Services to be Withdrawn: Switched/Unswitched and Intra-LATA DS0 Services

Dear Valued Customer,

Account Number: <BTN-Field2>
Vision ID: <Vision_Cust_ID>
Circuit ID: <CKT_ID>

Verizon is engaged in a multi-year program to update to next generation equipment and services. As part of this initiative, Verizon will discontinue certain Intra-State switched and unswitched private line DS0 services as well as certain Intra-LATA DS0 services.

This notice applies only to services sold by Verizon Delaware LLC, Verizon Maryland LLC, Verizon New England Inc., Verizon New Jersey Inc., Verizon New York Inc., Verizon North LLC, Verizon Pennsylvania LLC, Verizon South Inc., Verizon Virginia LLC and Verizon Washington, DC Inc.

According to our records, you currently subscribe to one of these services. The state-specific names for these services are shown in the table of [Attachment 1](#).

Verizon will stop fulfilling new requests for these services effective February 13, 2026. Circuit moves or changes, including modifications to these existing DS0 services will no longer be supported as of that date. Verizon will begin a phased discontinuance of these services on or after May 13, 2026. The timeframe to discontinue (i.e. disconnect) is subject to regulatory approval where required. Verizon will provide you with subsequent notice at least 90 days in advance of the actual date that your services will be disconnected.

Modifications in service offerings for customers with existing contracts are subject to the terms of their contract, including any tariff or product-guide provisions incorporated into the contract.

At this time, please review your applications that use any of these services and determine whether you wish to migrate those applications to an alternative Verizon product or to another provider. We are happy to work with you to find alternative Verizon solutions such as Ethernet Service, Private Internet Protocol Service, Wireless or VoIP Services.

We value your business and look forward to helping you realize the benefits that our advanced offerings can unlock for you. Should you have any questions or would like to discuss alternatives to the service being discontinued, please contact your Verizon Account Manager or call Customer Service at the toll-free number shown on your invoice.

For questions regarding this service withdrawal correspondence, please contact Kevin Organ at [631.206.7106](tel:631.206.7106) or email the program office at VZProductWithdrawal@verizon.com.

Sincerely,

Verizon

Note: Massachusetts customers can also contact the MA Department of Telecommunications and Cable Hotline, 800.392.6066.

Attachment 1

PRODUCTS BY STATE TO BE RETIRED/DISCONTINUED											
PUC INTRALATA LOCAL TARIFF/PRODUCT GUIDE	CT	DC	DE	MA	MD	NJ	NY	PA	RI	VA	
Channel Series 1000 (Metallic/ Telegraph)		X	X	X	X	X		X	X	X	
Channel Series 2000		X	X	X	X	X		X	X	X	
Channel Series 3000		X	X	X	X	X		X	X	X	
Channel Series 4000		X			X					X	
Channel Series 5000 (Wideband)				X	X					X	
Channel Series 6000 (Program Audio/ Program Transmission)		X	X	X	X	X		X	X	X	
Channel Series 7000						X					
Channel Series 9000 (Metallic Local Area Data Service)			X			X		X			
Channel Series 10000 (Voice Grade Entrance Facilities for 1000, 2000 or 3000)		X		X	X	X			X	X	
Channel Series 11000 (Metallic Local Area Data)		X			X					X	
High-Capacity Digital Hand-off Service (DHO)			X		X	X				X	
CONTROLINK Digital Channel Service (DHO)								X			
DOVPATH® Service				X					X		
Data Phone Select-a-Station				X							
Digital Connect Service/Digital Service			X			X					
Digital Data Service (DDS)/ Digital Service		X	X		X	X		X		X	
DIGIPATH® Digital Service (DDS)				X			X				
DIGIPATH® Digital Service II (DDSII)	X			X			X		X		
Flexpath Digital PBX Service				X			X		X		
Foreign Central Office		X	X		X				X		
Foreign Central Office - Residence				X	X			X	X	X	
Foreign Central Office - Business				X	X			X	X	X	
Foreign Central Office District Service						X					
Foreign Exchange Service	X	X									
Foreign Exchange - Business			X	X	X	X	X	X	X	X	
Foreign Exchange - Residence			X	X	X	X	X	X	X	X	
Foreign Zone Service	X	X									
Foreign Zone Service - Business					X				X	X	
Foreign Zone Service - Residence					X				X	X	
Leased Channel Services that include							X				
Facsimile, Group Channel Service	X	X					X				
Local Area Data Channels, Loudspeaker Paging, Mobile Radio Telephone							X				
Remote Metering, Indicating and Supervisory Control, Alarm or Miscellaneous Signaling	X						X				
Teletypewriter or other Printer Communication and Telewriter	X	X					X				
Access Channels for Private Line Services 64 Kbps and below							X				
Channels for Data Communication, Data Transmission, or Data 3a/ Data 4 Channels	X						X				
Loudspeaker Paging, and Code Calling Communications, Remote Operations of Mobile Radio Telephone	X						X				
Voice Channels for use with Subscriber Intercommunicating equipment	X						X				
Turret Lines	X						X				
Off Premise PBX Station Lines	X						X				
Private Line Services between 2 terminals for Voice Communications, Tie Lines	X						X				
Voice Grade Data, Wire Pair, Control, and Telegraph Grade Facilities	X										
Metallic Service and/ or Telegraph Grade			X					X			
Program Audio/ Program Transmission and/ or Channels for Program Transmission		X	X				X	X			
NYNEX Enterprise Fractional DS1 Service							X				
Secretarial Service/ Secretarial Answering Service/ Secretarial Lines and Associated Answering Equipment			X			X		X			
Secretarial Concentrator Central Office Concentrator Service				X							
Secretarial Concentrator Identifier Service or Lines/ Concentrator Identifier Equipment	X	X		X					X	X	
Select-A-Service/ Select-A-Station		X	X		X	X				X	
Short Period Talking Service (Superseded)				X							
Short Period Telephone Service						X					
Superpath Fractional T1 Service				X							
Telemetry Alarm Bridging Service		X			X						
Special Services - Voice Grade/Voice Grade Services (including to provide such services as Private Line, Mobile Radio, Remote Metering, Select-a-Station, Off Premise Stations, Tie Lines, Concentrator Identifier Line, Private Line Data)			X					X			
ISDN Basic Rate Interface Service/ISDN Basic Exchange Service	X	X		X			X	X	X		
Residential IntelliLinQ®BRI/ Individual Line Business IntelliLinQ®BRI Service		X	X		X	X				X	
ISDN Basic with Digital Centrex Service	X	X		X			X		X		
Centrex IntelliLinQ® - Basic Rate Interface (BRI)		X	X		X	X				X	
ISDN BRI/ISDN Single Line		X								X	
CENTRANET® DIGITAL (ISDN) CENTRANET® SERVICE								X			
Digital Electronic Telephone Set (DETS) with Basic ISDN Service includes P-Phones	X						X				
Intellipath Digital Centrex/ Digital Centrex Plus Service Proprietary Telephone Set Programmable Features				X					X		
Digital Centrex with Business Set Programmable Features/ Enhanced Station Line		X	X		X						
CENTREX Intelliling - Basic Rate Interface (BRI) Service with Business Set		X			X						
Electronic Telephone Set with Centrex Digital Features includes P-Phones						X					
Digital (ISDN) CentraNet® Multi-Button Key Set (MBKS) Basic/ Deluxe/ 3000 Deluxe Package options								X			
CentraNet® with Business Proprietary Set; Electronic Key Telephone System (EKTS) Voice Feature of ISDN - Single Line		X								X	
WATS-Inward WATS Terminations (ESS Optional Services)		X				X					
Toll Free Service access line/ Dedicated Inward WATS Toll Free Service Access Line	X	X	X		X						
Wide Area Telecommunications (WATS)/ WATS Access Lines	X	X			X		X			X	
WATS Service		X						X		X	

VERIZON NORTH LLC

LOCAL EXCHANGE TARIFF

ISSUED JANUARY 13, 2026

EFFECTIVE FEBRUARY 13, 2026

By Jacqueline McGirr
Associate Director, State & Local Government Affairs
One Verizon Way, Basking Ridge, NJ 07920

NOTICE

Verizon North LLC is sunsetting Integrated Services Digital Network (ISDN) Basic Rate Interface Service which will no longer be available to new customers effective February 13, 2026. Moves, changes, or modifications to this service will no longer be supported and service modifications for customers with existing contracts will be subject to the terms of their contracts.

Pa. P.U.C. No. 1

Section 17, 2nd Revised Sheet 1, Cancels 1st Revised Sheet 1

Section 17, 1st Revised Sheets 2-37, Cancels Original Sheets 2-37

Section 17, 2nd Revised Sheet 38, Cancels 1st Revised Sheet 38

Section 17, 1st Revised Sheet 38.1, Cancels Original Sheet 38.1

DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

Integrated Services Digital Network (ISDN) - Basic Rate Interface as set forth in this Section of the Tariff is a discontinued service offering. Rates and regulations apply only to those systems in service on March 30, 1996, and to subsequent additions to, or changes in, such systems where, in the opinion of the Company, it is feasible to make such additions or changes. Existing customers may continue the service for the duration of their current contract at the same location unless otherwise Ordered by the Pennsylvania Public Utility Commission.

1. GENERAL

- a. Integrated Services Digital Network (ISDN) - Basic Rate Interface Service is a local exchange telecommunications service available only to customers served from suitably equipped central offices. It is a central office based service arrangement which provides for local exchange access, interexchange access, business group communications and feature packages.
- b. ISDN - Basic Rate Interface Service is furnished from digital central office equipment located on Company premises and associated facilities.
- c. A customer may choose to subscribe to ISDN - Basic Rate Interface Service from a central office other than his normal serving central office. In this situation, the customer will utilize the dialing plan associated with the central office that delivers the dial tone. Where available, rates and charges will be provided as shown elsewhere in this Tariff.
- d. ISDN - Basic Rate Interface Service may be comprised of the following elements:

Channel Configuration
Features
ISDN Access
Network Access

- e. ISDN - Basic Rate Interface features will be grouped as follows:

CentraNet® Series 1000
CentraNet® Series 2000
CentraNet® Series 3000
Circuit Switched Data Features
Non-CentraNet® ISDN Feature Packages
Optional CentraNet® System Features
Packet Switched Data Features

* Effective February 13, 2026, this service is no longer available to new customers. Moves, changes, or modifications to this service will no longer be supported. Service modifications for customers with existing contracts are subject to the terms of their contracts. (C)
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(C)

DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)
(Continued)

2. REGULATIONS

- a. ISDN - Basic Rate Interface Services under this Tariff are available to those subscribers requiring five-hundred (500) lines or less. The minimum allowed line size is three (3) lines. All subscribers over the five-hundred (500) line maximum will be handled as a Special Service Arrangement.
- b. ISDN - Basic Rate Interface Service is required to conform with the Technical Reference Specifications as used by the Company in the GTE Technical Interface Reference Manual. Refer to Bellcore TR Nos. 393, 394, 397, 471, 793 and ANSI T1.601-620, T1.216-219. ISDN BRI will be provided where local loops do not exceed 14,000 kilofeet in length or a maximum 34 db loss as measured at the customer's premises.
- c. Should a change or substitution of Telephone Company operating facilities occur, the Telephone Company will work cooperatively with the customer relative to the implementation required by the change in operating characteristics.
- d. ISDN - Basic Rate Interface Features are listed in this Section. These features may require customer-provided compatible terminal equipment.
- e. Access to the exchange network for voice calls is provided via a Network Access as specified in Section 16, Paragraph D.5. of this Tariff. Each business group will have, at minimum, one (1) Network Access.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

2. REGULATIONS (Continued)

- f. The number of simultaneous voice exchange and toll network calls to and from ISDN - Basic Rate Interface Lines and attendant positions of an ISDN - Basic Rate Interface business system are limited by the number of Network Accesses subscribed to by the customer. Each Network Access may be arranged for two-way, one-way incoming, or one-way outgoing utilization depending upon the option of the customer at the time the Network Access is installed. When a change in the type of network utilization is requested by the customer, the appropriate change charge as specified in Section 16, Paragraph D.5. of this Tariff applies per Network Access affected.
- g. Directory Listings will be furnished subject to the rates and regulations specified in Section 10 of this Tariff.
- h. Service charges as specified in Section 3 of this Tariff apply in addition to the charges provided in this Section.
- i. Regulations specified in Section 1 of this Tariff are applicable to ISDN - Basic Rate Interface Service unless otherwise specified elsewhere in this Section.
- j. A single primary directory number (DN) is included with ISDN - Basic Rate Interface Service. Secondary directory numbers may be purchased as provided in Paragraph A.6. of this Section. A shared Primary DN is a primary DN that appears on more than one terminal. A shared Secondary DN is a DN that appears on more than one terminal but is not the primary DN on any of those terminals. A Secondary DN may function as a primary DN on a terminal within a business group.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

3. ISDN - BASIC RATE INTERFACE FEATURES

- a. The Attendant Services Feature package requires a single "B" Voice channel configuration on the ISDN - Basic Rate Interface Line.
- b. All features may not be available on all types of central office switches.
- c. Basic Service Features: Automatic Identification of Outward Dial (AIOD), Direct Inward Dialing/Direct Outward Dialing (DID/DOD), Distinctive Ringing, Station-to-Station Calling (Intercom), Touch Call, and Incoming Calling Number Identification (within the Business Group).
- d. CentraNet® Feature Package - Series 1000: Provided in Section 16 of this Tariff.
- e. CentraNet® Feature Package - Series 2000: Provided in Section 16 of this Tariff.
- f. CentraNet® Feature Package - Series 3000: Provided in Section 16 of this Tariff.
- g. CentraNet® Optional System Features: Provided in Section 16 of this Tariff.
- h. Circuit Switched Data Features:
 - (1) Data 1000 Feature Package includes Data Call Forward, Data Multi-Line Hunt Group, Data Speed Call-Short List, and Data Toll Restriction.
 - (2) Data 2000 Feature Package includes Data Call Back, Data Circular Hunting, Data Group Speed Calling 30, and Data Speed Call-Long List or any combination of Data 1000/Data 2000 features. A single line may not be equipped for both Data Multi-Line Hunt and Data Circular Hunting.
- i. Data Optional Features: Data Closed User Group and Data Direct Connect.

* Effective February 13, 2026, this service is no longer available to new customers. Moves, changes, or modifications to this service will no longer be supported. Service modifications for customers with existing contracts are subject to the terms of their contracts. (C)
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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

(C)

3. ISDN - BASIC RATE INTERFACE FEATURES (Continued)

- j. ISDN - Basic Rate Interface Attendant Service Features: Aggregate Work Time/Number of Calls Handled for ISDN Attendant, Attendant Busy Verification of Lines and Trunks, Attendant Call Hold, Attendant Call Splitting, Attendant Call-Through Tests, Attendant Camp On, Attendant Conference Calling, Attendant Console Terminal Management, Attendant Control of Voice Terminals, Attendant Direct Station Selection/Busy Lamp Field, Attendant Direct Trunk Group Selection, Attendant Emergency Override, Attendant Incoming Calling Identification (Customer Group), Attendant Night Service, Attendant Origination Permission Display (Class of Service), Attendant Position Busy, Attendant Power Failure Transfer, Attendant Selective Customer Control of Facilities, Attendant Through Dialing, Attendant Timed Reminder, Attendant Traffic, Attendant Trunk Group Indicators, Attendant Trunk Identification, Attendant Trunk Queuing, Auto Dropback to ISDN Attendant (Serial Calls), Dial and Emergency Access to ISDN Attendant, Even Call Distribution (Uniform Call Distribution), Flexible Night Service/Attendant Call Forwarding, Number of Calls on Queue - ISDN Attendant, Queuing for ISDN Attendants with Call Waiting Indication, and Total Number of Calls Handled Display Data for ISDN Attendants.
- k. ISDN - Basic Rate Interface Multibutton Key System Features (MBKS): Analog Shared Directory Number, Automatic Callback on Busy, Bridging, Call Forwarding, Call Pickup, Conference Calling, Drop, Feature Function Buttons, Feature Inspect, Hold, Intercom Function, Key System Coverage for Analog Lines, Manual Exclusion, Multiple Directory Number Buttons, Shared Call Appearances of Directory Numbers, Speed Calling, Terminal Management, Time and Date Display, Transfer, and Two-Digit Intercom Dialing.
- l. ISDN - Basic Rate Interface Multibutton Key System Deluxe Features: All of the ISDN MBKS Features plus the following: Delayed and Abbreviated Ringing, Display for Ringing Call Appearances Only, Initiated Priority Calling, Inspect for ISDN Terminals, Intercom Alerting, Originating Priority Calling, Outgoing Called Line Identification for ISDN Terminals, and Priority Calling Incoming Only.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

3. ISDN - BASIC RATE INTERFACE FEATURES (Continued)

m. Packet Switching Features:

- (1) ISDN X.25 Basic Feature Package includes Flow Control Parameter Negotiation, Incoming Calls Barred, Outgoing Calls Barred, Throughput Class Negotiations, and Transmit Delay Selection and Indication.
- (2) ISDN X.25 Enhanced Feature Package includes Closed User Group, Fast Select, Fast Select Acceptance, Hunt Groups, One-Way Outgoing Logical Channels, and Permanent Virtual Circuit.

4. DEFINITIONS

A. Standard definitions:

"B" Channel - A 64 Kbps channel primarily used for information transfer (voice/data) from user to user.

Business System - The combination of ISDN Access and Network Access Registers forming a complete communications system for a single business group within a single central office.

"D" Channel - A 16 kbps channel primarily used for signaling messages and/or packet-switched user data. The bit rate is fixed as a function of the interface used.

ISDN - Basic Rate Interface Line Capacity (2B+D) - Two 64 kilobits per second (kbps) "B" channels and one 16 kbps "D" channel (2B+D).

Number Identification - A Basic Service Feature which permits incoming calling number identification between ISDN Service and a CentraNet® System in the same business group or between two or more ISDN Basic Rate Interface lines in the same business group.

Primary Directory Number (DN) - The single telephone number provided with each ISDN Access Line.

Secondary DN - A telephone number purchased by the customer which is in addition to the primary DN for an ISDN Access Line.

Terminal - A CPE device connected to an ISDN - Basic Rate Interface line.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

(C)

4. DEFINITIONS (Continued)

b. Definition of Features:

(1) Definitions of the CentraNet® Feature Packages and CentraNet® Optional System Features are provided in Section 16 of this Tariff.

(2) Circuit Switched Data Features:

(a) Data 1000 Feature Package:

Data Call Forward - This feature allows a customer to have incoming calls to a station automatically forwarded to a predetermined telephone number. Call Forward consists of three variations as follows: all calls, busy, and no answer.

Data Multi-Line Hunt Group - Only a pilot directory number is associated with this hunt group. Hunting is sequential, i.e., starting at the first line assigned to the pilot directory number and ending at the last line.

Data Speed Call-Short List - The use of the Speed Calling short list is limited to an individual Switched Data line. A short list consists of a maximum of eight stored numbers.

Data Toll Restriction - Toll calls attempted from Switched Data lines with this feature are denied.

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(C) Indicates Change

Issued: January 13, 2026

Effective: February 13, 2026

DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

4. DEFINITIONS (Continued)

b. Definitions of Features:

(2) Circuit Switched Data Features: (Continued)

(b) Data 2000 Feature Package:

Data Call Back - This feature allows a calling party upon encountering a busy line to be notified when the line becomes idle. The call is then automatically established.

Data Circular Hunting - Only a pilot directory number is associated with this hunt group. Hunting starts after the first idle line found by the previous hunt and continues until the hunting starting point is reached.

Data Group Speed Calling 30 - This feature provides storage for an abbreviated numbers list which is shared for use by a group of lines. The list may be updated by a service order. A maximum of thirty stored numbers is available.

Data Speed Call-Long List - The use of the Speed Calling Long List is limited to an individual Switched Data line. A long list consists of a maximum of thirty stored numbers.

(3) Data Optional Features

Data Closed User Group - This feature provides the partitioning of Switched Data lines into a group where calls within such a group are allowed, but calls between such groups are denied.

Data Direct Connect - This feature provides an automatic connection between a calling line that goes off-hook and a predetermined location.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

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4. DEFINITIONS

b. Definition of Features: (Continued)

(4) ISDN - Basic Rate Interface Attendant Service Features:

Aggregate Work Time/Number of Calls Handled for ISDN Attendant allows a supervisor, or attendant, to display data about an attendant position. The data includes:

- Aggregate time spent handling calls
- Length of time the console was active
- Number of calls handled

Attendant Busy Verification of Lines and Trunks allows an attendant to determine whether a line or trunk within the same customer group is busy or idle. If the line or trunk is busy, the attendant is bridged onto the connection to:

- Converse with the parties
- Determine if it is busy or if there is a problem
- Override (disconnect) the talking parties

Attendant Call Hold allows the attendant to hold a call in progress to originate another call, or pick up a call on hold. Timed reminder is activated when the call is placed on hold by the attendant.

Attendant Call Splitting allows the attendant to consult privately with the called party without the calling party hearing. The attendant can alternate conversation between the called and calling party before completing (or terminating) the call.

Attendant Call-Through Tests (Physical Trunks) allows the attendant to set up a test call over a selected physical trunk in a trunk group to determine if the trunk is working properly.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

4. DEFINITIONS

b. Definition of Features:

(4) ISDN - Basic Rate Interface Attendant Service Features:
(Continued)

Attendant Camp-on allows calls that the attendant attempts to complete to a busy analog or ISDN station to be held waiting until the station becomes idle. The attendant can release from the connection. A call waiting indication is given to alert the busy party. When the busy station becomes idle, it is automatically alerted and connected to the calling party without attendant intervention. While waiting, the caller (and the attendant) can be connected to silence, tone, audible ringing, or announcement. The Timed Reminder feature can be initiated when camp-on is activated. Calls to the attendant from within the group and from outside the group can be camped-on to a busy station.

Attendant Conference Calling allows the attendant to set up conference calls with any combination of extensions or trunks on the internal conference bridge. The maximum number of parties on the conference call is limited to the capacity of the multipoint conference circuit.

Attendant Console Terminal Management provides management services for the attendant console but is not a feature that an attendant uses as part of his/her responsibilities. Rather, it is a feature provided by the switch to support the attendant console. The basic services provided are:

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

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4. DEFINITIONS (Continued)

b. Definition of Features:

(4) ISDN - Basic Rate Interface Attendant Service Features:

Attendant Console Terminal Management (Continued)

Button Management: The switch maintains information about the button configuration of the console. For example, a console could have ten buttons. For one console, the switch could configure these ten buttons to be six call appearance and four feature buttons. For another console, these ten buttons could be eight call appearances and two feature buttons.

Call Appearance Selection: The switch selects a call appearance on the console for incoming calls and for certain attendant-originated calls (e.g., originations via Direct Trunk Group Selection, Direct Station Selection, etc.).

Directory Number Management: A maximum of eight listed directory numbers (DNs) can be assigned to an attendant group. The switch does not support shared call appearances for attendant positions. Each attendant is capable of having a unique DN, other than the listed directory number (LDN), for purposes of attendant-to-attendant calls.

Display Management: Many of the attendant features use a console display.

Lamp Management: Lamp management is responsible for controlling console lamps associated with features.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

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4. DEFINITIONS

b. Definition of Features:

(4) ISDN - Basic Rate Interface Attendant Service Features:

Attendant Console Terminal Management (Continued)

Tones Management: The switch informs the console to alert the attendant to one of four specific events. The console is responsible for generating corresponding tones. Note that these are not in-band call processing tones generated by the switch. The four alerting tones, arranged in priority of importance are:

- Emergency informs the attendant that an emergency call is waiting (highest priority).
- Timed Reminder informs the attendant that a timed reminder for a held call or an unanswered transferred call has expired.
- Call Waiting informs the attendant that calls are in queue waiting to be answered.
- Alerting informs the attendant that a call is alerting the console.

Attendant Control of Voice Terminals feature routes calls destined for a line or group of lines to the attendant for handling. It is activated by the attendant or automatically by the switch.

Attendant Direct Station Selection/Busy Lamp Field feature allows the attendant to display the status of up to 10,000 directory numbers (DNs) in 100 groups of 100 contiguous DN's starting at 00. Within a group of 100, the attendant can select a station via a single keystroke. Two selection options are available; one for monitoring up to 800 DN's and the other for monitoring up to 10,000 DN's.

Attendant Direct Trunk Group Selection allows the attendant to select an idle trunk for an outgoing call by pressing a single button on the console.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

4. DEFINITIONS

b. Definition of Features:

(4) ISDN - Basic Rate Interface Attendant Service Features:
(Continued)

Attendant Emergency Override allows the attendant to complete incoming calls to stations:

- That are busy from setting the make busy key;
- That have a series completion or multiline hunt arrangement;
- With Call Forwarding activated; or
- With terminating restrictions.

Attendant Incoming Calling Identification Customer Group allows an attendant to identify the type of facility over which an incoming call to the attendant was routed.

Attendant Night Service routes calls directed to the ISDN Attendant to a different station. This feature is activated and deactivated from a designated ISDN Attendant console. The user can select one of the following options for Night Service routing:

Fixed Routing: Calls are routed from the major listed directory number to a preselected night station. Routing is controlled by the operating company and can be changed by a service order.

Flexible Routing: The ISDN Attendant user Call Forwarding-Variable to arrange routing.

Trunk Answer From Any Station: Calls activate a night ring or other indicator at all stations in the group. Calls can be answered at any station by dialing an access code for the call pickup feature.

When Night Service is activated, trunk queuing and automatic callback are automatically cancelled, and the attendant can originate calls.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

4. DEFINITIONS (Continued)

b. Definition of Features:

(4) ISDN - Basic Rate Interface Attendant Service Features:

Attendant Originated Permission Display (Class of Service Display) identifies the originating permissions of lines that have been routed to the attendant.

Attendant Position Busy allows the position to be made busy by the attendant. When the position is made busy in a single position arrangement, new calls to the position receive busy treatment. In a multiple position arrangement, new calls are directed to a different console position. When a position is in a position-busy state, the attendant can serve calls on hold, calls alerting the console, and calls on a timed reminder and can also originate calls. The attendant can remove the position busy condition at any time.

Attendant Power Failure Transfer (ISDN Communication Failure) routes calls destined for the attendant to a preassigned directory number (DN) during a commercial power failure at the customer premises.

Attendant Selective Customer Control of Facilities allows an attendant to deny access to a trunk or simulated facility group. All calls, including attendant-originated calls, are denied access to the facility when this feature is activated. Calls to restricted facilities are routed as specified by the customer.

Attendant Through Dialing allows an attendant to access an outgoing facility for a calling party within the group who has restrictions or difficulty in placing an outgoing call.

Attendant Timed Reminder provides a timer that is started when a call is camped-on, when the called party has not answered after a transfer, or when a call is on hold. When the timer expires, the attendant is alerted and can pick up the call to talk to the calling party. The length of the timer is specified by the customer.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

(C)

4. DEFINITIONS

b. Definition of Features:

(4) ISDN - Basic Rate Interface Attendant Service Features:
(Continued)

Attendant Traffic provides the following counts for each attendant console position. These counts are available only to a designated attendant (master position) for display at the console and via traffic data to customer reporting mechanisms.

- Aggregate work time for the position
- Minutes the position has been active
- Number of calls handled by the position

Customer traffic reports these counts periodically (every 30 minutes). The master position can obtain this information for each attendant position in the attendant group. The master position must make repeated requests for this data to sequence through all the data for attendants in the attendant group.

These counts are zeroed by the switch when an attendant activates a position. The counts apply only to calls offered to the position, not including time waiting in a central office queue or calls abandoned before connection to an attendant call appearance. These counts are not part of the standard traffic reporting mechanism of the switch (e.g., hourly reports).

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

(C)

4. DEFINITIONS

b. Definition of Features:

(4) ISDN - Basic Rate Interface Attendant Service Features:
(Continued)

Attendant Trunk Group Indicators allow an attendant to monitor the level of traffic on customer selected trunk groups. A maximum of 16 trunk groups per attendant position can be monitored. A maximum of 64 trunk groups per attendant group can be monitored. Each attendant position is capable of monitoring a different set of trunk groups. Two trunk indicators, busy and warning, are provided per trunk group. These indicators are based on traffic thresholds. The attendant is notified if the thresholds are exceeded or if the traffic levels recede below the thresholds.

Attendant Trunk Identification provides a display of the trunk group and member number of the incoming or outgoing trunk in use at the request of the attendant.

Attendant Trunk Queuing allows an attendant position to invoke this feature when all trunks in a trunk group are busy and provides call-back when a trunk is available.

Automatic Dropback to ISDN Attendant (Serial Calls) lets an attendant complete a call from an incoming trunk to two or more stations in succession, without requiring the calling party to redial the attendant. When the called party disconnects, the attendant is recalled and the calling party can give further instructions for the next call. This feature provides time and cost savings for a long-distance caller because the largest cost per time-segment occurs at the beginning of a call. Serial calling can also be used by callers within a group to place a series of calls over an outgoing trunk.

Dial Access to ISDN Attendant provides dial access from stations within the customer group.

Even Call Distribution (Uniform Call Distribution) uniformly distributes calls to multiple attendant positions.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

(C)

4. DEFINITIONS

b. Definition of Features:

(4) ISDN - Basic Rate Interface Attendant Service Features:
(Continued)Flexible Night Service/Attendant Call Forwarding

Night Service routes calls normally directed to the attendant group to a different location (night location, also known as a night directory number). Routing may be provided in one of the following ways:

- Fixed - All calls to all listed Directory Numbers (LDNs) served by Multiple Position Hunt (MUPH) or ISDN Attendant (ISAT) groups are routed to a preselected (at subscription time) night directory number and the activation/deactivation of it is done from a designated console only.
- Trunk Answer from any Station: All calls to all LDNs served by MUPH or ISAT groups activate a night bell or other indicator so that calls may be answered at any station by dialing an answer access code for the call pickup feature.
- Flexible: The Attendant call forwarding feature is used to selectively route all calls to an LDN served by a MUPH or ISAT group to a different customer changeable night directory number and the activation/ deactivation of it can be done from any console in the MUPH or ISAT group.

Flexible and fixed night service can be assigned concurrently to the same MUPH or ISAT group and both features can be used by attendants. The flexible night service feature, when activated, will take precedence over the fixed night service activation.

Attendant Call Forwarding allows attendant to activate/deactivate call forwarding for any LDN within the MUPH or ISAT group (i.e., Flexible night service) and for any extension or station with call forwarding variable assigned can be controlled from the attendant console.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

4. DEFINITIONS

b. Definition of Features:

(4) ISDN - Basic Rate Interface Attendant Service Features:
(Continued)

Number of Calls on Queue-ISDN Attendant can be displayed for each ISDN call identification (ICI) type. By repeating the request, the attendant can display all ICI queues.

Queuing of ISDN Attendant with Call Waiting Indication (Lamps) provides queuing of calls designated for attendants who are to receive a particular call type, as determined by the Incoming Call Identification feature. Queues are served on a "first come, first serve" basis. An indicator is lighted to alert the attendant that a call is waiting.

Total Number of Calls Handled Display Data for ISDN Attendants provides supervisors with traffic data information about each attendant in the ISDN attendant group. This information includes:

- Average time for calls on queue abandoned before being served
- Average time on queue for served calls
- Longest time for a call on queue
- Total number of calls on queue abandoned before being served
- Total number of served calls

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

4. DEFINITIONS

b. Definition of Features: (Continued)

(5) ISDN - Basic Rate Interface Multibutton Key System (MBKS) Features:

Analog Shared Directory Number on all SM Configurations allows analog lines that share directory numbers with ISDN multibutton keysets to be assigned to switching modules that do not contain ISDN software.

Automatic Callback on Busy allows the user to activate this feature by pressing the function button assigned to Automatic Callback on Busy when a busy number is dialed. When the busy station becomes idle, a distinctive ring alerts the originating MBKS set user. When the set user goes off-hook, the call is placed.

Bridging allows the MBKS set user to bridge onto a currently active call by pressing the active call appearance button on the MBKS set and going off-hook. This establishes a 3-way call. This is different from standard Threeway Calling because the third party initiates the bridge to the active call. Bridging is inhibited if Manual Exclusion is activated at an MBKS set engaged in the active call. Only one additional shared call appearance user may bridge on an active 2-way call. Bridging is not allowed on an active multiway call.

Call Forwarding allows the MBKS set user to activate Call Forwarding functions, then dial the number to which calls are to be forwarded. Buttons can be programmed to activate different variations of Call Forwarding, such as Forward All Calls, Forward When Busy, etc. Call Forwarding is deactivated by pressing the same button a second time.

Call Pickup allows the MBKS set user to pick up a call directed to another station in the customer group.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

(C)

4. DEFINITIONS

b. Definition of Features:

(5) ISDN - Basic Rate Interface Multibutton Key System (MBKS) Features: (Continued)

Conference Calling allows the MBKS set user to set up a conference call. The user presses the button and dials the directory number (DN) of the party to be added to the conference. Conference calls can include members of the customer group and parties outside the group. Up to six parties can be connected simultaneously.

Drop feature allows the MBKS set user to drop the last party added to a conference call. For a two-party call, pressing this button disconnects the MBKS set from the call.

Feature Function Buttons on the MBKS set can be assigned to activate certain features (any that can be activated by dialing an activation code). Indicator lights show the activation or deactivation status of the features. The number of function buttons may vary dependent on the MBKS set design. Some of the features that can be assigned to feature function buttons are:

Automatic Callback on Busy allows the user to activate this feature by pressing the function button assigned to Automatic Callback on Busy when a busy number is dialed. When the busy station becomes idle, a distinctive ring alerts the originating MBKS set user. When the set user goes off-hook, the call is placed.

Call Forwarding allows the MBKS set user to activate Call Forwarding functions, then dial the number to which calls are to be forwarded. Buttons can be programmed to activate different variations of Call Forwarding, such as Forward All Calls, Forward When Busy, etc. Call Forwarding is deactivated by pressing the same button a second time.

Call Pickup allows the MBKS set user to pick up a call directed to another station in the customer group.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

4. DEFINITIONS

b. Definition of Features:

(5) ISDN - Basic Rate Interface Multibutton Key System (MBKS) Features:

Feature Function Buttons (Continued)

Conference Calling allows the MBKS set user to set up a conference call. The user presses the button and dials the directory number (DN) of the party to be added to the conference. Conference calls can include members of the customer group and parties outside the group. Up to six parties can be connected simultaneously.

Drop feature allows the MBKS set user to drop the last party added to a conference call. For a two-party call, pressing this button disconnects the MBKS set from the call.

Hold allows the MBKS set user to place a call on hold by pressing the function button. Any MBKS set with the call appearance for call on hold can pick up the call by pressing the call appearance button.

Manual Exclusion allows an MBKS set user to inhibit other stations from picking up a call on hold or bridging onto a call that is active at that station.

Multiple Directory Number Buttons provide access to more than one directory number (DN) on the MBKS set. Indicator lights show the status of the DN (idle, call on hold, call in progress, etc.)

Speed Calling allows the user to dial a preassigned number by pressing the button assigned to speed calling and dialing one or two digits. This feature operates with the Call Transfer, Conference Calling, and Call Forwarding features.

Transfer allows the MBKS set user to transfer a call to another directory number (DN) in the customer group by pressing the transfer button, dialing the DN, and pressing the button again.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

4. DEFINITIONS

b. Definition of Features:

(5) ISDN - Basic Rate Interface Multibutton Key System (MBKS) Features: (Continued)

Feature Inspect - This provides service providers and end users who have display terminals with a method of determining the features and call appearances that are assigned to the buttons on the terminal. This is different from inspect for ISDN terminal feature.

Hold allows the MBKS set user to place a call on hold by pressing the function button. Any MBKS set with the call appearance for call on hold can pick up the call by pressing the call appearance button.

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

Key System Coverage for Analog Lines allows an analog station set to share calls with the ISDN station set.

Manual Exclusion allows an MBKS set user to inhibit other stations from picking up a call on hold or bridging onto a call that is active at that station.

Multiple Directory Number Buttons provide access to more than one directory number (DN) on the MBKS set. Indicator lights show the status of the DN (idle, call on hold, call in progress, etc.)

Shared Call Appearances of a Directory Number (DN) allows several MBKS station sets to share one or more DNs. Originating and terminating events on one station set affect all stations sharing that DN. The shared DNs can have multiple call appearances, multiple calls can exist on one DN, and more than one station sharing the DN can have a call active on that shared DN.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

(C)

4. DEFINITIONS

b. Definition of Features:

(5) ISDN - Basic Rate Interface Multibutton Key System (MBKS) Features: (Continued)

Speed Calling (also known as Abbreviated Dialing) permits the customer to dial selected numbers using fewer digits than normally required. This is accomplished through the assignment of abbreviated codes to frequently called numbers. One- and two- digit speed calling lists are available. The Speed Calling feature is available to individual lines and members (some or all) of a multiline hunt group. Speed Calling lists assigned to individual lines can be shared by other lines at the customer's request. For the business and residential customer services feature, the service provider can define list sizes and up to three digit access codes. Speed Calling allows the user to dial a preassigned number by pressing the button assigned to speed calling and dialing one or two digits. This feature operates with the Call Transfer, Conference Calling, and Call Forwarding features.

Terminal Management provides a management function for the MBKS terminal and, therefore, is mostly transparent. However, the following capabilities impact the user:

Adjunct Control automatically turns on the speaker phone at the station set, if appropriate for the particular feature.

Automatic Hold/Drop Preference automatically determines how to handle a call active on one call appearance when the user shifts to another appearance. Two types of treatment are provided: auto-drop and auto-hold.

Button Management provides generic buttons that can be used for features or call appearances.

Call Appearance Selection for Implicit Conference and Transfer automatically selects an idle appearance for the Implicit Conference and Transfer features.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

(C)

4. DEFINITIONS

b. Definition of Features:

(5) ISDN - Basic Rate Interface Multibutton Key System (MBKS) Features:

Terminal Management (Continued)

Display for Ringing Call Appearances Only will activate displays on a multibutton keyset only for ringing call appearances. This eliminates displays that a call coverage person has no need and no desire to see. The feature is intended for applications where keysets have large numbers of secondary call appearances to provide shared backup coverage among a group of secretaries, and where abbreviated and delayed ringing is used.

Feature Button Inspection provides service providers and end users who have display terminals with a method of determining the features and call appearances that are assigned to the buttons on a terminal. Inspecting a button is a two-step procedure: (1) the Inspect Feature button is depressed, and (2) the feature or call appearance button to be inspected is pressed. The feature assigned or, for call appearances, call related information is displayed.

Idle Call Appearance Preference automatically selects an idle call appearance, if available, when an MBKS set with multiple call appearances goes off-hook. This selection occurs even if other call appearances are alerting the station set.

Inspect for ISDN Terminals retrieves and displays call-related information about any call appearance that has a call associated with it. This could be the active call, a call on hold, or an alerting call. The data that can be displayed includes: call appearance identification, called or calling directory number (DN), incoming call identifier call type, and called or calling party name. If the user performing the inspection is an attendant, the originating permissions are also displayed.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

(C)

4. DEFINITIONS

b. Definition of Features:

(5) ISDN - Basic Rate Interface Multibutton Key System (MBKS) Features:

Terminal Management (Continued)

Ringling Call Appearance Preference automatically selects the call appearance that has been alerting the longest when the user goes off-hook at an MBKS station set with multiple call appearances being alerted.

Time and Date Display is a subscription feature for ISDN attendants and ISDN station set users.

Transfer allows the MBKS set user to transfer a call to another directory number (DN) in the customer group by pressing the transfer button, dialing the DN, and pressing the button again.

Two-Digit Intercom Dialing - This feature allows a user to have a shortened dialing sequence (two digits) to reach a group of destination numbers in the business group. The maximum size that can reside in that intercom group cannot exceed 100 members.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

4. DEFINITIONS

b. Definition of Features: (Continued)

(6) ISDN - Basic Rate Interface Multibutton Key System (MBKS) Deluxe Features:

The features below are in addition to the ISDN - Basic Rate Interface Multibutton (BMKS) Features described preceding.

Delayed and Abbreviated Ringing alerts an MBKS set for a predetermined interval before ringing another designated MBKS set.

Display for Ringing Call Appearances Only will activate displays on a multibutton keyset only for ringing call appearances. This eliminates displays that a call coverage person has no need and no desire to see. The feature is intended for applications where keysets have large numbers of secondary call appearances to provide shared back up coverage among a group of secretaries, and where abbreviated and delayed ringing is used.

Initiated Priority Calling provides an ISDN equivalent of Dial Call Waiting. A station user initiates a priority call by one of two methods: dialing the initiated priority calling function code or pressing a priority calling feature button, then dialing the digits of the called party.

Inspect for ISDN Terminals retrieves and displays call-related information about any call appearance that has a call associated with it. This could be the active call, a call on hold, or an alerting call. The data that can be displayed includes: call appearance identification, called or calling directory number (DN), incoming call identifier call type, and called or calling party name. If the user performing the inspection is an attendant, the originating permissions are also displayed.

Intercom Alerting provides a distinctive ring and/or visual indicator to alert the MBKS set user of an intercom call.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

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4. DEFINITIONS

b. Definition of Features:

(6) ISDN - Basic Rate Interface Multibutton Key System (MBKS) Deluxe Features: (Continued)

Originating Priority Calling provides an ISDN equivalent to Call Waiting Originating. When assigned to a particular station set, all calls originated from it are priority calls.

Outgoing Called Line Identification (OCLID) for ISDN Terminals provides a user originating a call with information about the called party and the facility or destination. Facility and call destination information are provided via the ISDN Call Identification (ICI) call types. The OCLID information provided is:

- Call Appearance Identification
- Called Directory Number (DN)
- ISDN Call Identification (ICI)

If an attendant is originating the call, the switch also provides the originating permissions of the called party. This feature is billed only on a flat-rate basis.

Priority Calling Incoming Only provides an ISDN equivalent of Call Waiting-Incoming Only. With this feature, calls outside the business group can terminate to a priority call appearance. Terminations to priority appearances use normal intergroup alerting as opposed to priority alerting.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

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4. DEFINITIONS

b. Definition of Features: (Continued)

(7) Package Switching Features

(a) ISDN X.25 Basic Feature Package:

X.25 Flow Control Parameter Negotiation permits negotiation on a per call basis of the flow control parameters. This consists of automatically negotiating the maximum packet size and window size for each direction of data transmission.

X.25 Incoming Calls Barred feature prohibits a data terminal from terminating an incoming call. This feature is activated by a service order.

X.25 Outgoing Calls Barred feature prohibits a data terminal from originating outgoing virtual calls. This feature is activated by service order.

X.25 Throughput Class Negotiation feature allows the calling data terminal to request specific throughput classes in the call request package for both directions of data transmission. This feature is activated by service order.

X.25 Transmit Delay Selection and Indication allows the data terminal to specify an acceptance transit delay on a per-call basis for virtual call.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

4. DEFINITIONS

b. Definition of Features:

(7) Package Switching Features (Continued)

(b) ISDN X.25 Enhanced Feature Package:

X.25 Closed User Groups allows ISDN subscribers to establish subnetworks within which the members of a closed user group can communicate. Communication with users who are external to the closed user group is not permitted. The closed user groups are established by a service order. A user can belong to multiple closed user groups.

X.25 Fast Select allows a sending data terminal to forward up to 128 bytes of data along with call setup and clearing packets.

X.25 Fast Select Acceptance allows the switch to transmit incoming call packets with the fast select facility to a destination terminal that has this feature.

X.25 Hunt Groups allow a grouping of access lines such that an incoming packet-switched data call to the hunt group is completed if there is an available logical channel on any of the access lines within the hunt group. A Hunt Group is established by service order. Members of a Hunt Group can be distributed among the ISDN switching modules within the switch, but the Hunt Group cannot span switches. A basic rate interface within a Hunt Group can have its own address (individual line addressing) and can accept calls independent of the Hunt Group. A Hunt Group can have multiple group addresses.

X.25 One-Way Outgoing Logical Channel allows an ISDN subscriber to specify some number of logical channels to be used only for calls that they originate. This feature is activated by service order.

X.25 Permanent Virtual Circuit feature allows packet switching to be implemented over a dedicated logical channel without needing call setup or clearing. The permanent virtual circuit is established by a service order.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)
(Continued)

5. CONVERSION

- a. A customer with existing CentraNet® or other local exchange service offering may select to convert to ISDN - Basic Rate Interface Service. When an existing CentraNet® customer orders services in combination, both Basic Rate Interface Service and CentraNet® may be grouped together if the facilities provided for all the connections terminate in the same facilities terminal in the same Telephone Company central office.
- b. All applicable installation and service connection charges, plus charges applicable to the establishment of ISDN - Basic Rate Interface Service will apply.
- c. For the purpose of administering termination liability provision applicable to converting CentraNet®, each Basic Rate Interface Service line will be counted as a CentraNet® service line in determining the total system size. Should the combined business/customer group decline below the existing system size or should the customer discontinue all existing CentraNet® lines, any and all appropriate termination liability charges will apply.
- d. A temporary interruption of service will occur.
- e. The conversion may incur a change of service arrangement requiring a telephone number change.

6. ADDITIONAL DIRECTORY NUMBERS

- a. One "primary" directory number (DN) is provided for the use of an ISDN-Basic Rate Interface Line.
- b. With ISDN Access, a single terminal may choose to order multiple Secondary directory numbers for the ISDN - Basic Rate Interface Line.
- c. A maximum of eight (8) terminals belonging to the same customer are permitted per ISDN-Basic Rate Interface Line. At a minimum, one secondary directory number is required for each additional terminal.
- d. Secondary directory numbers are available as specified in Paragraph A.10. of this Section.

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DIGITAL NETWORK SERVICES

- A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)
(Continued)
7. PAYMENT SCHEDULE
- a. ISDN - Basic Rate Interface Service is offered as a month-to-month payment plan.
 - b. ISDN - Basic Rate Interface Service is subject to a one (1) month minimum service period.
8. ISDN MULTIPOINT ACCESS
- a. ISDN Multipoint Access provides support for connecting a maximum of eight (8) terminals, belonging to the same customer, to a single ISDN - Basic Rate Interface Line (2B+D).
 - b. A maximum of two (2) terminals will be allowed access to the "B" channels, the remaining terminals on the same ISDN - Basic Rate Interface Line will have access to the "D" channel only.
 - c. All eight terminals can share the same "D" channel simultaneously in a "D" channel packet switching arrangement.
 - d. ISDN Multipoint Access includes a "primary" directory number. Secondary directory numbers to be used by the multiple users on the same ISDN - Basic Rate Interface Line must be ordered by the customer as specified in Paragraph A.6. of this Section.

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(C)

DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)
(Continued)

9. Rate Structure

a. ISDN - Basic Rate Interface Service consists of six (6) basic elements:

"B" Circuit Switched Data Channel (B-CSD)
 "B" Packet Switched Data Channel
 "B" Voice Channel
 "B" Voice/CSD Channel
 "D" Packet Switched Data Channel
 ISDN Access

- b. Each ISDN - Basic Rate Interface Service is comprised of an ISDN Access element. The channel elements can be arranged to best suit the customers needs, not to exceed the maximum 2B+D per ISDN - Basic Rate Interface capacity.
- c. Each ISDN BRI line is allowed only one voice, one data and one packet feature package regardless of the number or mix of desired channels.
- d. Each ISDN - Basic Rate Interface Line within a business group can be individually suited by feature package and channel arrangement.
- e. The rates and charges for ISDN Access specified in this Section provide for the access to the basic exchange network and the line termination.
- f. The customer can subscribe to ISDN Access as Voice or Data or a combination of Data and Voice on a single or multi-point service.
- g. The rates and charges for Network Access as specified in Section 16, Paragraph D.5. of this Tariff are required for exchange and toll network usage.
- h. The "B" Voice Channel element assigns voice traffic to one of two available "B" channels on the ISDN - Basic Rate Interface Line.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE* (C)

9. RATE STRUCTURE (Continued)

- i. The "B" Circuit Switched Data Channel (B-CSD) assigns circuit switched data traffic to one of two available "B" channels on the ISDN - Basic Rate Interface Line. The CSD channel will operate at speeds up to 64 Kbps for intra-business group calling only. When the CSD channel is utilized at the 56 kbps speed, the user is able to place calls within a business group and outside of the business group. Usage charges as shown in Section 2, Paragraph D.3.c. of this Tariff will apply for CSD calls to points outside the business group. If the customer desires that both available "B" channels be dedicated to CSD, then two (2) "B"-CSD Channel elements would be required.
- j. The "B" Packet Switched Data Channel dedicates a "B" channel to packet switched data. This channel is available for business group calling only. If the customer desires that both available "B" channels be dedicated to packet switched data service, then two (2) "B" Packet Switched Data Channel elements are applicable.
- k. The "D" Packet Switched Data Channel allows the customer to utilize the "D" channel for packet switched data. This channel is available for business group calling only. A single "D" Packet Switched Data Channel is available independent of the "B" channel configuration.
- l. End User charges as specified in the End User Common Access Service Section of GTE System Telephone Companies Tariff FCC No. 1 apply as appropriate.
- m. Presubscription of a Carrier of Preference is specified in Section 8 of GTE System Telephone Companies Tariff FCC No. 1. All secondary directory numbers will be presubscribed to the same Carrier of Preference as the customer's "primary" directory number. Access to other service providers will be via the 10XXX access code. Each Basic Rate Interface Line may have one Carrier of Preference for switched voice and one Carrier of Preference for switched data.

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(C)

DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE** (C)
 (Continued)

10. RATES AND CHARGES

a. Nonrecurring Charges

(1) The following nonrecurring charge is in addition to any applicable service charges as described in Section 3 of this Tariff, and/or installation provided for in other sections of this Tariff.

	<u>GSEC</u>	<u>Nonrecurring Charge</u>
(2) Data Base Changes*		
(a) Major Software Additions, Per Hour or Fraction Thereof	ISDNMSAIC	\$50.00
Add Customized Dialing Plan Add Customer Requested Data Base Profile		
(b) Routine Software Change, Per Hour or Fraction Thereof	ISDNRSCIC	50.00
Change Trunk Group Change Non-Data-Link Attendant Change Custom Recording Change ARS Translations Change Translations Tables		

* Data Base Additions or Changes not listed in this Tariff will be charged a rate of \$50.00 per hour, or fraction thereof, plus materials.

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(C) Indicates Change

DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE** (C)
 (Continued)

10. RATES AND CHARGES

a. Nonrecurring Charges

(2) Data Base Changes* (Continued)

	<u>GSEC</u>	<u>Nonrecurring Charge</u>
(c) Minor Software Change	ISDNMSCIC	\$50.00
Change Subgroup		
Hunt Groups		
ACD Hunt Group (1)		
Simulated Facility Group		
Queuing Groups (2)		
Night Answer (UNA/PNA) (3)		
Paging/Public Address/Code Calling (4)		
Conference Calling - 8, 16, 24 Ports		
Remote Access Directory Number (5)		
Authorization Code Validation (6)		
Music On Hold Access		
Dictation Link Access		
Standard Recording		
Extended Pick Up Code		
Executive Busy Override		
Multi-Level Restriction (7)(8)		

- (1) Additional minor change charge for each recording, queuing, and station change.
- (2) Additional minor change charge for each trunk group.
- (3) Additional minor change charge for each PNA number, zone, area.
- (4) Additional minor change charge for each area
- (5) Additional minor change charge for each authorization code.
- (6) Additional minor change charge for each 2 codes.
- (7) Additional minor change charge for each 10 codes.
- (8) Additional minor change charge to add toll control.

* Data Base Additions or Changes not listed in this Tariff will be charged a rate of \$50.00 per hour, or fraction thereof, plus materials.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*** (C)
 (Continued)

10. RATES AND CHARGES

a. Nonrecurring Charges (Continued)

	<u>GSEC</u>	<u>Nonrecurring Charge</u>
(3) Software Reconfiguration Charge*	ISDNSRCIC	\$50.00

This charge applies for changes, deletions, additions for the following activities. The rate will apply on a per line, per service order basis regardless of the mix of activities. A Data Base Change Charge and a Software Reconfiguration Charge may be applicable on the same service order.

- (a) Feature Packages
- (b) Features Within a Feature Package
- (c) Programmable Buttons
- (d) Terminals

b. Recurring Charges

(1) The rates and charges shown herein apply in addition to all other applicable rates and charges shown elsewhere in the Company's tariffs.

	<u>GSEC</u>	<u>ISDN Access Monthly Rate</u>	<u>ISDN Multi-point Access Monthly Rate</u>
(a) Per Access Line**			
3 - 25 Lines	ISDNACC3 ISDNACC3D	22.00	24.00
26 - 50 Lines	ISDNACC26 ISDNACC26D	21.50	23.50
51 - 100 Lines	ISDNACC51 ISDNACC51D	21.00	23.00
101 - 250 Lines	ISDNACC101 ISDNACC101D	20.50	22.50
251 - 500 Lines	ISDNACC201 ISDNACC201D	20.00	22.00

* Data Base Additions or Changes not listed in this Tariff will be charged a rate of \$50.00 per hour, or fraction thereof, plus materials.

** May be used for Voice or Data or a combination of Data and Voice on a single or multipoint service.

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 (C)

DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*** (C)

10. RATES AND CHARGES

b. Recurring Charges (Continued)

(1) (Continued)

	<u>GSEC</u>	<u>Monthly Rate</u>
(b) For an ISDN - Basic Rate Interface Line Capacity (2B+D), the following channel elements apply per each channel so arranged.		
B-Voice/CSD Channel*, each	ISDNBVCSD	\$ 9.00
B-CSD Channel*, each	ISDNBCSD	8.00
B-Voice Only Channel, each	ISDNBVC	2.00
B-Packet Switched Data Channel, each	ISDNBPKT	120.00
D-Packet Switched Data Channel, each	ISDNDPKT	5.00
(c) The following Feature Series rates apply per Basic Rate Interface Line.		
Feature Series 1000, per line	**	
Feature Series 2000, per line	**	
Feature Series 3000, per line	**	
Optional System Features		**

* Usage charges shown in Section 2, Paragraph D.3.c. will apply for Circuit Switched Data will apply.

** Apply appropriate rates and charges as specified in Section 16 for CentraNet® Feature Series.

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DIGITAL NETWORK SERVICES

(C)

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE**

10. RATES AND CHARGES

b. Recurring Charges (Continued)

(1) (Continued)

	<u>GSEC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
(c) (Continued)			
MBKS Features, per line	ISDNMBKS ISDNMBKSIC	\$ 25.00	\$ 6.00
MBKS Deluxe Features, per line	ISDNMBKSD ISDNMBKSDIC	25.00	8.00
Attendant Services*, per line	ISDNCNSLFTR ISDNCNSLIC	100.00	25.00
X.25 Enhanced Features, per line	ISDNX25EFP ISDNX25IC	15.00	5.00
Data 1000, per line	ISDNDFP1000 ISDN1000IC	15.00	3.00
Data 2000, per line	ISDNDFP2000 ISDN2000IC	15.00	5.00
(d) Optional Data Features			
Data Direct Connect, per line	ISDNDDC	-	1.00
Data Closed User Group, per line	ISDNDCUG	-	1.00
(e) Secondary Directory Number, per line	ISDNADN	-	.40
(f) ISDN Individual Line Loop Extension, per line	ISDNLE ISDNLEIC	51.00	30.25

* Available in specific central offices.

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DIGITAL NETWORK SERVICES

A. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) - BASIC RATE INTERFACE*

(C)

11. INDIVIDUAL LINE LOOP EXTENSION

- a. ISDN Individual Line Loop Extension provides a physical extension of the BRI loop from approximately 18,000 feet to approximately 36,000 feet when provided from an ISDN capable central office. This physical extension is accomplished by means of a central office installed power module and an outside plant installed regenerator or U-repeater.
- b. ISDN Individual Line Loop Extension Service is deployed based upon dB loss and not on specific cable footage. The equipment specifications state that a loss of up to 34dB at 40kHz in either direction from the field repeater is acceptable. The GTE engineering practice maximum loss for an ISDN BRI loop is 38dB at 40kHz. When the customer's distance exceeds this standard, the U-repeater will be mounted within the stated range of 34dB and the customer's distance is extended another 34dB from the U-repeater installation point. Only one power module and U-repeater can be installed per BRI line.
- c. The power module is designed for use only with the U-repeater and the repeater can only be used with the power module.
- d. The customer will not incur a charge for the ISDN BRI Loop Extension unless the equipment is actually used.

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