

**1. ISDN DIRECT**

Effective June 21, 2002, 84-Month Term Payment Plans will no longer be available for ISDN Direct Service. Current ISDN Direct 84-month customers may continue to retain their existing service as is at their current address until the 84-month contract term expires. Any customer requested changes to the existing Service will require the customer to select a new contract term payment plan or the month-to-month option at the then current Guidebook rates. The Company will not impose termination liability to those customers required to make a contract term change.

Upon completion of the 84 month TPP term, customers may continue receiving the service at the then-current rates under any available payment plan. If the customer does not select a new payment plan and does not request discontinuance of the Service, the Month-to-Month Guidebook rates in effect at such time will automatically apply.

Effective July 16, 2005, no further installations, moves, rearrangements, or changes of any type will be made to ISDN Direct B-Channel or D-Channel Packet services. Customers of record on July 16, 2005 may continue their service as long as such service remains at the location at which it was being furnished on the aforementioned date. In the event that these services are discontinued at their present location for any reason, they will not be reestablished.

The preceding supersedes all of the rules and regulations that follow.

**A. General**

ISDN Direct is a local exchange telecommunications service that provides customer access to Packet Switched Data services.

A maximum of 8 services are permitted per ISDN Direct service, including a maximum of two B channel services.

**B. Vacant****C. Regulations****1. Term Payment Plans**

Customers may elect to subscribe to ISDN Direct Service for an extended period under a Term Payment Plan (TPP) option, which allows the customer to select an 84-month payment plan. During the length of the selected TPP, monthly prices for service ordered under the plan, will automatically change (increase or decrease) as Company initiated price changes become effective. However, under no circumstances will any price change cause the monthly price for the service to exceed the price that was in effect at the beginning of the selected TPP term.

**1. ISDN DIRECT (cont'd)****D. Service Descriptions**

1. Packet Switched Data Service - "B" Channel
  - a. Provides the ability to originate and receive X.25 packet data calls over the 64 Kbps "B" channel. Standard capabilities and features for Packet Switched Network Service lines using X.25 are specified in Part 6, Section 2. Optional capabilities and features for Packet Switched Network service lines using X.25 are available at rates and charges set forth in Part 6, Section 2. Provides throughput of up to 19.2 Kbps per individual logical channel.
2. On-Demand Packet Switched Data - "B" Channel
  - a. This capability allows a user to request that a connection be established to provide the ability to originate and receive X.25 Packet Switched Data calls over the 64 Kbps "B" channel.
  - b. Standard capabilities and features for Packet Switched Network lines using X.25 access are included.
  - c. Provides up to 128 logical channels and throughput of up to 19.2 Kbps per individual logical channel.
  - d. Calls, optional capabilities and features for Packet Switched Network lines using X.25 are available at the rates shown in Part 20, Section 6.
3. Packet Switched Data Service - "D" Channel
  - a. Provides the ability to originate and receive X.25 packet data calls over the 16 Kbps "D" channel. Standard capabilities and features for Packet Switched Network Service lines using X.25 access are specified in Part 20, Section 6. Optional capabilities and features for Packet Switched Network Service lines using X.25 are available at rates and charges set forth in Part 20, Section 6. The "D" channel packet has a maximum throughput of 9.6 Kbps.

**1. ISDN DIRECT (cont'd)****E. Rates and Charges****1. General**

- a. Packet Switched Network Service call usage charges apply.
- b. References:

<u>Service</u>	<u>Reference</u>
Packet Switched Network Service	AT&T Guidebook, Part 20, Section 6

**2. Service Elements and Optional Features**

Description/Billing Code	Variable Term Option Monthly Rates 84-Month
a. ISDN Direct Line /OBQ/	\$11.25
b. ISDN Direct CO Termination /N2Q/P2B/	7.10
c. Distance extension charge for beyond normal transmission range per ISDN Line /XTN/	26.00
d. Circuit Switched Voice Service Element, per "B" Channel equipped /LTQ5X/	2.40
Additional Multiple Call Appearances, each /ACSPB/	2.00
Secondary Telephone Numbers, including call appearance, each /D06/	2.00
e. Circuit Switched Data Service Element, per "B" Channel equipped /LTQ6X/	7.40
f. Alternate Circuit Switched Voice Service/Circuit Switched Data Service Element Charge, per "B" Channel equipped /LTQ1X/	7.90

**1. ISDN DIRECT (cont'd)****E. Rates and Charges (cont'd)****2. Service Elements and Optional Features (cont'd)**

Description /Billing Code/	Non- Recurring Charge	Variable Term Option <i>Monthly Rates</i>			
		1-Month	36-Month	60-Month	84-Month
g. Packet Switched Data-"B" Channel Service Element Charge, per "B" Channel equipped /LTQ3X/	\$100.00	\$85.00	\$80.00	\$75.00	\$70.00
h. Packet Switched Data-"D" Channel Service Element Charge, per Data Communications Equipment (DCE) /LTQ4X/	15.00	6.50	6.30	6.10	5.90
i. On-Demand Packet Switched Data "B" Channel /LTH7X/	50.00	20.00	-	-	-
j. Subsequent changes for Packet Switched Data rearrangement to add line appearance or move line or feature appearances, per occasion /REA1B/	15.00	-	-	-	-

**2. ISDN PRIME SERVICE**

Effective June 21, 2002, 84-Month Term Payment Plans will no longer be available for ISDN Prime Service. Current ISDN PRI 84-month customers may continue to retain their existing service as is at their current address until the 84-month contract term expires. Any customer requested changes to the existing Service will require the customer to select a new contract term payment plan or the month-to-month option at the then current Guidebook rates. The Company will not impose termination liability to those customers required to make a contract term change.

Upon completion of the 84-month TPP term, customers may continue receiving the Service at the then-current rates under any available payment plan. If the customer does not select a new payment plan and does not request discontinuance of the Service, the month-to-month Guidebook rates in effect at such time will automatically apply.

The preceding supersedes all of the rules and regulations that follow.

**A. Prices****1. Service Elements**

Description /Billing Code/	Variable Term Option Monthly Rates 84 Month
ISDN Prime (Custom) - each /ZPAZD/	\$420.00
ISDN Prime (National) - each /ZPQZD/	420.00
Backup "D" Channel - each /ZPBXD/	105.00
Call By Call for FX - per trunk group /C2Q/	15.00
Call By Call for Tie Lines - per trunk group /C3Q/	15.00

**2. ISDN PRIME SERVICE (cont'd)****A. Prices (cont'd)****1. Service Elements**

Description /Billing Code/	Variable Term Option
	Monthly Rates 84-Month
Network Ring Again - per trunk group /ZRA/	\$45.00
Network Name Display - per trunk group /ZNN/	45.00
ISDN Calling Name ID, per trunk group /NM1PG/	75.00
2 B Channel Transfer, per trunk group /2BTPG/	60.00
Selective Class of Call Screening, per trunk group /HMBPG/	30.00

**2. Payment Plans****Term Payment Plans**

Customers may elect to subscribe to ISDN Prime Service for an extended period under a Term Payment Plan (TPP) option, which allows the customer to select an 84-month payment plan. During the length of the selected TPP, monthly prices for service ordered under the plan, will automatically change (increase or decrease) as Company initiated price changes become effective. However, under no circumstances will any price change cause the monthly price for the service to exceed the price that was in effect at the beginning of the selected TPP term.

**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT**

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*Effective November 1, 2012, no further installations, moves, rearrangements, or changes of any type will be made to National Integrated Services Digital Network (ISDN) Direct service. Customers of record on November 1, 2012 may continue their service as long as such service remains at the location at which it was being furnished on the aforementioned date. In the event that these services are discontinued at their present location for any reason, they will not be reestablished. The preceding supersedes all of the rules and regulations that follow.*

**A. Description**

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1. National Integrated Services Digital Network (ISDN) Direct is a telecommunications service that provides an integrated voice/data communications capability for the transmission of Circuit Switched Voice and data signals on an incoming and outgoing basis utilizing Integrated Services Digital Network architecture as recommended by the International Telephone and Telegraph Consultative Committee (CCITT) and the American National Standards Institute (ANSI), as defined by Telcordia Technical References, and consistent with the North American ISDN Users Forum (NIUF) Implementation Agreements (specifically, Implementation Agreements NIU.301 and NIU.302).
2. National ISDN Direct provides the customer with the ability to combine Circuit Switched Voice and Circuit Switched Data services over a single National ISDN Direct line.
3. The two 64 Kbps "B" channels are used to transmit any combination of Circuit Switched Voice or Circuit Switched Data services.
4. The "D" channel is used to carry network signaling only.
5. National ISDN Direct service is available as a residence service.
6. The service is available from specially equipped digital switching equipment located in the Company's central offices and is provided where facilities permit and where capacity is available.

**B. Regulations**

1. A variety of standard and optional features and capabilities are offered. The availability and functions of the features may vary by serving central office.
2. National ISDN Direct lines are also subject to End User Common Line (EUCL) charges as filed by the SBC Operating Companies in Tariff F.C.C. No. 2. The customer shall be liable for all adjustments to the EUCL charge per National ISDN Direct line, per month, as authorized or mandated by the Federal Communications Commission (or by any regulatory body or commission or court of competent jurisdiction).

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/1/ Material formerly appeared in Part 17, Section 1, Sheet 16.

**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT (cont'd)**

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**B. Regulations (cont'd)**

3. The rates shown for National ISDN Direct are exclusive of local and toll charges and associated customer premises equipment.
4. Distance Extension charges, as specified in Part 17, Section 1, Paragraph 1.E.2. of this Guidebook will apply for customers served beyond the normal transmission range specified in the Company's ISDN Interface Specifications. (C)  
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5. When the customer's premises and the central office providing National ISDN Direct service are located in different Service Areas, Base Rate Service, contained in Part 15, Section 1 of the AT&T Ohio Guidebook, rates and charges will apply. Customers provided this service arrangement will require three Interexchange Mileage component charges and six Channel Mileage Termination charges for each National ISDN Direct line they purchase.
6. In cases where the customer's premises are in Independent Telephone Company (ITC) serving areas, the Company will assess Base Rate Interexchange Mileage charges only to the point of meet with the ITC or intermediate ITC. Charges for ITC services will be assessed by the ITC.
7. Rates and charges for other services normally applied on a per line basis apply on a per channel basis for this service. /1/

/1/ Material formerly appeared in Part 17, Section 1, Sheet 17.



**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT (cont'd)**

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**B. Regulations (cont'd)**

8. All customer provided equipment used to interface with National ISDN Direct service is required to conform with the Technical Reference Specifications as used by the Company and found in the following publication:

SubjectTechnical Reference

ISDN  
Interface Specifications

AM-TR-NIS-000068

The Technical Reference can be obtained from:

APEX Support Team  
(734) 523-7348

9. Residential ISDN customer premises equipment must be Class B compliant as set forth by the Code of Federal Regulations 47 CFR Part 15, Subpart A, Section 15.3, Paragraph I.
10. A National ISDN CO Termination is required for each National ISDN Direct Line. This enables the subscriber to configure circuit switched service elements and on the 2B+D National ISDN Direct Line.

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/1/ Material formerly appeared in Part 17, Section 1, Sheet 18.

**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT (cont'd)**

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**C. Channel Services**

1. Circuit Switched Service (Voice capabilities)
  - a. Provides the ability to originate and receive Circuit Switched Voice calls, as well as an electronic key set capability over a 64 Kbps "B" channel. Voice calls are subject to local and toll usage charges based upon the type of service selected by the customer. Local usage charges are specified in Part 4, Section 2 of this Guidebook. Toll usage charges are specified in Part 9, Section 1 of the AT&T Ohio Guidebook.
  - b. The following voice capabilities are standard:
    1. Analog Line Appearance - Allows analog lines to have a line appearance on the ISDN CPE with Circuit Switched Voice service. This capability is limited to analog lines that exist in the same switching entity that provides the National ISDN Direct service. This capability may result in the loss of some features and/or functionality on the analog line.

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/1/ Material formerly appeared in Part 17, Section 1, Sheet 19.

**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT (cont'd)**

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**C. Channel Services (cont'd)**

1. Circuit Switched Service (Voice capabilities) (cont'd)
  - b. The following voice capabilities are standard: (cont'd)
    2. Call Hold - Allows the customer to place a call on hold at the central office, making the channel available for another call (either incoming or outgoing). This can be done through software in the customer's equipment or, often, by depressing a properly programmed button on the customer's telephone equipment.
    3. Call Transfer - Incoming and outgoing calls may be transferred to other lines. The customer initiating the transfer is responsible for any local or toll charges on transferred calls.
    4. Called Number Display - The called number is displayed on compatible customer premises equipment when an outgoing call is placed.
    5. Caller ID - The caller's number, if not blocked, is displayed on compatible customer premises equipment when an incoming call is received. The Caller ID feature will forward the calling number from the appropriately equipped originating central office to the customer provided display device.
    6. Conference Calling-3 Way - Allows a user to hold incoming or outgoing calls, initiate another call, then return to the original call, adding on the last party.
    7. Denied Origination - Allows call terminations, but prevents the origination of a call.
    8. Denied Termination - Allows call originations, but prevents the termination of a call.
    9. Hunting - Incoming calls to a busy line appearance are redirected to a predetermined telephone number to search for a line on which to complete the call. This may be another Circuit Switched Voice channel, another ISDN station or an analog line. The types of hunting are limited to Series Completion, Multi-Line and Circular. This feature may impact the use of Shared Call Appearance and Multiple Call Appearance in certain serving central offices.

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/1/ Material formerly appeared in Part 17, Section 1, Sheet 20.

**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT (cont'd)**

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**C. Channel Services (cont'd)**

1. Circuit Switched Service (Voice capabilities) (cont'd)
  - b. The following voice capabilities are standard: (cont'd)
    10. Multiple Call Appearance - Provides up to four appearances of the station's primary directory number or secondary telephone number on the same instrument. These appearances may provide additional access from the public network, and/or may originate unique dial tone for additional outgoing access (see Additional Multiple Call Appearance for applications that require more than four call appearances on the same device). This feature may impact the use of Shared Call Appearance in certain serving central offices.
    11. Shared Call Appearance - Provides the capability to terminate telephone numbers from one ISDN station to another. These numbers are configured in a Single Call Arrangement (SCA). SCA allows only one set to be active (either originating or terminating) on the Shared Call Appearance at any given time. Manual Exclusion capabilities are available in this arrangement.
  - c. The following voice capabilities are optional:
    1. Additional Call Offering - Provides notification to an ISDN user that a call directed to that user is present at the service switch, even though no B-Channel can be allocated for the call. Once notified, the user may free up a B-Channel (by clearing another call or placing another call on hold) in order to accept the additional call. This feature provides similar functionality as that provided by Call Waiting for the analog telephone user.
    2. Additional Multiple Call Appearances - Provides additional call appearances, beyond the initial four appearances, of a station's primary directory number or secondary telephone number on the same instrument. These appearances may provide additional access from the public network, and/or may originate unique dial tone for additional outgoing access.
    3. Alternate Answer - Provides for the automatic transfer of all incoming calls to a fixed telephone number when the called telephone number is not answered by a specified number of rings (see Part 7, Section 3 of this Guidebook).

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/1/ Material formerly appeared in Part 17, Section 1, Sheet 21.

**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT (cont'd)**

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**C. Channel Services (cont'd)**

## 1. Circuit Switched Service (Voice capabilities) (cont'd)

## c. The following voice capabilities are optional: (cont'd)

4. Automatic Callback - By dialing a special code, the customer is able to return the last call received whether or not it was answered (see Part 7, Section 2 of this Guidebook).
5. Busy Line Transfer - Provides for the automatic transfer of all incoming calls to a fixed telephone number when the called telephone number is busy (see Part 7, Section 3 of this Guidebook).
6. Call Forwarding - Permits customer to transfer incoming calls to another line (see Part 7, Section 1 of this Guidebook).
7. Call Screening - Allows customer to prevent repeated calls from an unwanted caller whose number may or may not be known (see Part 7, Section 2 of this Guidebook).
8. Intercom Calling - This capability allows a voice user to be able to call another voice user within the Electronic Key Telephone Service (EKTS) intercom group without affecting the busy/idle status of any of the directory numbers (DNs) of the calling voice user. Intercom groups can consist of just one other voice user, requiring no intercom address, can consist of two to ten voice users, requiring a one-digit intercom address, or can consist of two to one hundred voice users, requiring a two-digit intercom address. This is a form of abbreviated dialing in that, one voice user can dial another by simply hitting the intercom button and then dialing no digits, one or two digits respectively.
9. Message Waiting Indicator - Provides the ability to indicate to the ISDN station user that they have a voice or electronic message waiting at their Message Storage and Retrieval (MSR) System. The Message Waiting Indicator may be used to present either a visual or audible signal to the user as determined by the customer's equipment.

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/1/ Material formerly appeared in Part 17, Section 1, Sheet 22.

**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT (cont'd)****C. Channel Services (cont'd)****1. Circuit Switched Service (Voice capabilities) (cont'd)****c. The following voice capabilities are optional: (cont'd)**

10. Repeat Dialing - Enables a customer to reach a called party whose line is busy without having to continually redial the telephone number (see Part 7, Section 2 of this Guidebook).
11. Secondary Telephone Number - Provides an additional telephone number and one call appearance which is not physically terminated, but exists in the programming of Circuit Switched Voice. The additional directory number, while not terminated on a dedicated facility, may be accessed from the network, and may originate unique outgoing dial tone from one instrument that has another directory number as its primary directory number.
12. Station-Controlled Conference (6 Port) - Allows a station user to establish a conference call consisting of a maximum of six conferees, including the originator of the call.
13. Speed Calling - Permits the customer to place calls to a preselected group of telephone numbers by dialing abbreviated codes. Speed Calling is provided in capacities of eight or thirty telephone numbers (see Part 7, Section 1 of this Guidebook)<sup>/1/</sup>.

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**2. Circuit Switched Service (Data capabilities)**

- a. Provides the ability to originate and receive Circuit Switched Data calls over the 64 Kbps "B" channel. Data line speeds up to 64 Kbps are permitted. Circuit Switched Data calls are subject to local usage charges based upon the type of service selected by the customer. Local usage charges are specified in Part 4, Section 2 of this Guidebook.
- b. The following data capabilities are standard:
  1. Caller ID - The caller's number, if not blocked, is displayed on compatible customer premises equipment when an incoming call is received. The Caller ID feature will forward the calling number from the appropriately equipped originating central office to the customer-provided display device.
  2. Clear Channel Capability - Clear channel capability is provided since all signaling and control functions are handled by the "D" channel. This allows all 64 Kbps on each "B" channel to be used for customer information over the National ISDN Direct line. Calls may be either 56 or 64 Kbps depending on the network capabilities in place between the National ISDN Direct line and the distant end of the call.

/1/ Speed Calling 30 is withdrawn for residence customers effective June 15, 2013.

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**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT (cont'd)**

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**C. Channel Services (cont'd)****2. Circuit Switched Service (Data capabilities) (cont'd)****b. The following data capabilities are standard: (cont'd)**

3. Denied Origination - Allows call terminations, but prevents the origination of a call.
4. Denied Termination - Allows call originations, but prevents the termination of a call.
5. Hunt Group for Shared Data Access - Provides for the automatic search of a group of shared ports to find an available port in response to a connection request. The types of hunting are limited to Series Completion, Multi-Line and Circular.

**c. The following data capabilities are optional:**

1. Additional Call Offering - Provides notification to an ISDN user that a call directed to that user is present at the service switch, even though no B-Channel can be allocated for the call. Once notified, the user may free up a B-Channel (by clearing another call or placing another call on hold) in order to accept the additional call. This feature provides similar functionality as that provided by Call Waiting for the analog telephone user.
2. Alternate Answering - Provides for the automatic transfer of all incoming calls to a fixed telephone number when the called telephone number is not answered by a specified number of rings (see Part 7, Section 3 of this Guidebook).
3. Busy Line Transfer - Provides for the automatic transfer of all incoming calls to a fixed telephone number when the called telephone number is busy (see Part 7, Section 3 of this Guidebook).
4. Call Forwarding - Permits customer to transfer incoming calls to another line (see Part 7, Section 1 of this Guidebook).

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**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT (cont'd)****D. Rates and Charges**

1. National ISDN Direct is available as a residence service. Rates charged for the loop, EUCL, usage and optional features such as Custom Calling services are based upon the customer's class of service.
2. Service ordering and line connection charges as specified in Part 3, Section 1 of this Guidebook are also applicable for the establishment of National ISDN Direct.
3. Service Elements and Optional Features:

	Nonrecurring Charge	Monthly Rate
a. National ISDN CO Termination /P2B/	\$50.00	\$15.00
b. National ISDN Direct Line /P2L/	/1/	20.00 <sup>/1/</sup> (I)

/1/ Applicable residence service charges are specified in Part 4, Section 2.



**3. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT (cont'd)**

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**D. Rates and Charges (cont'd)****3. Service Elements and Optional Features (cont'd)**

Description	Nonrecurring Charge	Monthly Rate
c. Circuit Switched Service Element Per "B" Channel /LTF1D/	\$15.00	\$3.50
Additional Call Offering/NCO/	5.00	2.50
Additional Multiple Call Appearances, each /ACSPB/	5.00	2.00
Intercom Calling /NZV/	5.00	2.50
Secondary Telephone Numbers, each /DO6/	5.00	2.50
Station Controlled Conference-6 Port /EQ6/	15.00	14.00
Message Waiting Indicator, each /MLN/	5.00	2.50
d. Subsequent changes for Circuit Switched rearrangements to add line appearances, move line or feature appearance, per occasion /REA16/	/1/	

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/1/ The charge for subsequent changes is specified in paragraph 2.D.2 preceding.

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/2/ Material formerly appeared in Part 17, Section 1, Sheet 26.