

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

A. AUTOMATIC ROUTE SELECTION – BASIC (ARS-B)

1. Definitions

Certain terms as used in this section are defined as follows:

a. Facility

A facility denotes a specific FX, CCSA, tie line, or IXC access line circuit.

b. Foreign Area Discrete Translation

Foreign Area Discrete Translation is the screening of a specific group of digits, by the switching equipment, to determine proper call routing.

For example: In the configuration of Automatic Route Selection patterns, the NPA code only is screened to determine the preferred route. This is referred to as 3 digit translation.

Further, where the calls are limited to specific central office designations within the Number Plan Area, the NPA code and the central office code (the first 6 digits) must be screened. This is referred to as 6 digit translation.

c. Pattern

A group of routes arranged to be selected in a sequence specified by the Customer. For example:

Access Code 9

<u>Pattern #1</u>	<u>Pattern #2</u>	<u>Pattern #3</u>
FX WATS Band 1	FX	
WATS Band 1	WATS Band 2	WATS Band 2
CCSA	CCSA	WATS Band 4
MTS Network	MTS Network	WATS Band 5
		MTS Network

Access Code 182

<u>Pattern #1</u>	<u>Pattern #2</u>	<u>Pattern #3</u>
FX WATS Band 1	IXC	
IXCIXC	WATS Band 1	
WATS Band 3	WATS Band 3	WATS Band 3
Overflow Tone	FX	WATS Band 5
	Overflow Tone	Overflow Tone

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

A. AUTOMATIC ROUTE SELECTION – BASIC (ARS-B) (Continued)

1. Definitions (Continued)

d. Route

A route is a group of one or more facilities of the same type used to complete 7 or 10 digit calls between the same points. (e.g., 1FX to Chicago, or 3 WATS Band 1 lines, or 2 WATS Band 5 lines, or 1 CCSA, etc. A WATS Band 1 and a WATS Band 5 are considered to be two routes. Exception: Where a Customer has "WATS Route Advance", the route capacity of a pattern is only reduced by one route.)

e. Route Selection

The automatic selection of the preferred route as predetermined by the Customer, when an access code is dialed by the station user.

2. Terms and Conditions

ARS-B is an optional feature available where facilities permit, which allows station users to automatically select the preferred route subscribed to by a Customer for network calls, by dialing a preselected code. Alternate routing to other facilities subscribed to by the Customer is also provided. This arrangement is available for use with foreign exchange (FX), wide area telecommunications service (WATS), common control switching arrangement (CCSA) off-net, tie, interexchange carrier (IXC) access lines which are compatible with ARS-B and the message telecommunications system (MTS) network, and MTS network facilities. Tie lines and IXC access lines require senderized operation and uniform numbering compatible with the MTS network.

ARS-B is accessed by dialing a single code (1, 2, or 3 digits) which automatically selects the appropriate route (FX, CCSA off-net, tie line, IXC access line, or the MTS Network) to complete the call. If all facilities in the initial route selected are busy, the call will advance to other routes in the selected pattern. Patterns may consist of up to four (4) private routes. If no route is available, the call will route to the MTS Network or overflow tone (Customer option). All patterns accessed by a single access code will have the same final route, either the MTS network or overflow tone.

For calls using FX, CCSA off-net, or IXC access line facilities, the routing may be based on a Number Plan Area (NPA) and limited to specified central office codes within the NPA as designated by the Customer. This is referred to as Foreign Area Discrete Translation.

Preferred routes and alternate routing patterns will be specified by the Customer.

All rates and charges specified for ARS-B are in addition to the rates and charges for the associated facilities.

The number of patterns required by a Customer is governed by the type and variety of facilities to which the Customer subscribes.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

A. AUTOMATIC ROUTE SELECTION – BASIC (ARS-B) (Continued)

1. Terms and Conditions (Continued)

A single rate per facility will apply regardless of the number of patterns having access to that facility. The monthly rate specified is applicable to each facility available to the patterns.

Patterns without final route to the MTS network may be offered only if a Customer subscribes to a sufficient number of facilities which, in the judgment of the Company, provide an adequate level of service so as to avoid interfering with the service of others or to prevent others from making or receiving calls over their telecommunications service.

Where a route is used in one pattern, only one translation may be provided per pattern. Where a route is used in two or more patterns, one translation per pattern may be provided subject to the appropriate charges in this section of the Agreement. Where central office code translation is required for more than one number plan area per single facility group or route, rates and charges apply for each number plan area translated.

A group of patterns may have either the MTS network or overflow tone as a final route. A combination of both within the same pattern group, that is, a group of patterns accessed by one code, is not permitted. Dial "9" may be used as an access code only if the patterns accessed have the MTS network as a final route.

Where toll-restricted service lines have access to ARS-B patterns with final route to the MTS network, apply the rate and charge as specified for patterns with overflow to tone in lieu of the rate and charge specified for final route to the MTS Network.

ARS-B is offered only to customers served from central offices equipped to furnish this feature, where facilities permit.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

A. AUTOMATIC ROUTE SELECTION – BASIC (ARS-B) (Continued)

2. Rates and Charges

	<u>Initial Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
Common Equipment			
Per customer group (Per ESS Switching Equipment, per access code)	900.00	125.00	ART
Route Selection Patterns			
Per facility terminated in patterns	1.75	4.75	AR5
By Number Plan Area code only, with final route:			
to the MTS Network, per pattern, each (Note)	200.00	8.50	AR9
to overflow tone, per pattern, each	200.00	38.50	ARG
By Number Plan Area code and central office codes, with final route:			
to the MTS Network, per pattern, each (Note)	285.00	15.00	ARH
to overflow tone, per pattern, each	285.00	44.00	ARK

Note: Where service lines equipped for toll restriction access a pattern, apply the rate and charge as specified for USOC ARG or ARK.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

A. AUTOMATIC ROUTE SELECTION – BASIC (ARS-B) (Continued)

2. Rates and Charges (Continued)

Additions and Changes	<u>Initial Charge</u>
Additions, deletions or changes of routes in existing patterns, per pattern (each WATS band is treated as a separate route)	200.00
Addition or deletion of a facility to an existing route	1.75
Additions or changes in NPA or central office code routing, per route (each WATS band is treated as a separate route)	285.00

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

B. KEY EQUIVALENT FEATURES

1. Definitions

a. Automatic Callback

A service line user who attempts an intercommunicating call to a busy service line will be automatically connected to that line when both the called and calling lines are later idle.

b. Call Forwarding - Busy Line

When certain types of non-intercom calls are originated to a busy service line, the calls are routed to the attendant or a designated service line within the same system.

c. Call Forwarding - Busy Line, Intragroup

When certain types of non-intercom and intercom calls are originated to a busy service line, the calls are routed to the attendant or a designated service line within the same system.

d. Call Forwarding - Don't Answer

When certain types of non-intercom calls which have been originated to a service line are not answered within a prescribed time interval which is dependent upon the arrangement of the serving central office equipment, the calls are forwarded to the attendant or a designated service line within the same system.

e. Call Forwarding - Don't Answer, Intragroup

When certain types of non-intercom and intercom calls which have been originated to a service line are not answered within a prescribed time interval which is dependent upon the arrangement of the serving central office equipment, the calls are forwarded to the attendant or a designated service line within the same system.

f. Call Forwarding Over Private Facilities

A service line user may establish automatic routing of incoming calls designated for that line to a specific private facility when the private facility is terminated in the user's system. As used in this section, the term "private facility" applies to CCSA, EPSCS, ETS, FX, and tie lines arranged for senderized operation, and the local and toll message network.

g. Call Forwarding - Variable

A station or station set (telephone) user or the attendant may establish automatic routing of certain incoming calls destined for that service line to another service line selected by the user, or to the attendant in the same system.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

B. KEY EQUIVALENT FEATURES (Continued)

1. Definitions (Continued)

8. Call Forwarding - Variable, Outside

A station or station set (telephone) user or the attendant may establish the automatic routing of certain incoming calls destined for that service line to another service line selected by the user or to the attendant in the same system; or the user may establish the automatic routing to a number outside the system.

h. Call Hold

A station or station set (telephone) user may usually place any established call involving his or her service line on hold by operating the switchhook and dialing a preset code.

i. Caller ID

Displays the telephone number of the caller after the first ring.

j. Call Pickup

A station or station set (telephone) user may answer calls directed to another service line within the same call pickup group by dialing a preset code.

k. Call Transfer - Unlimited

A station or station set (telephone) user can transfer any established call (incoming, outgoing or intrasystem) to another service line within the same system without assistance from the attendant. This is accomplished by hanging up after utilizing consultation hold and/or add-on, which are integral parts of Call Transfer.

l. Call Transfer - Outside

A station or station set (telephone) user can transfer any established call (incoming, outgoing or intrasystem) to another service line within the same system without assistance from the attendant. This is accomplished by hanging up after utilizing consultation hold and/or add-on, which are integral parts of Call Transfer. A station or station set (telephone) user may also employ add-on and/or consultation hold for any established external call, but cannot transfer the call to another external call.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

B. KEY EQUIVALENT FEATURES (Continued)

1. Definitions (Continued)

m. Call Waiting - Originating

When a called service line in the same system is busy, the calling service line will cause an audible tone to be transmitted, indicating a call is waiting.

n. Call Waiting - Terminating

When a service line is busy, the user will receive an audible tone to indicate that a non-intercom call is waiting.

o. Call Waiting - Terminating, Intragroup

When a service line is busy, the user will receive an audible tone to indicate that either a non-intercom or an intercom call is waiting.

p. Calling Name and Number

On incoming calls, provides for the delivery of the listed name and telephone number associated with the calling party. Information may be displayed on a customer-provided display device attached to the subscriber's line or telephone set. Based on the current technology of the network, the name and telephone number of the calling party may be truncated. This service is not available for electronic or ISDN lines.

q. Dial Call Waiting

When a called service line in the same system is busy, the calling service line user can cause an audible tone to be transmitted to indicate a call is waiting , by dialing a preset code.

r. Directed Call Pickup

Any station or station set (telephone) user can intercept a call which has been answered or is ringing at another service line, provided the called service line is equipped, by dialing a preset code.

s. Directed Call Pickup - Non-Barge-In

Any station or station set (telephone) user may, by selecting a line equipped with this feature and by dialing a preset code, intercept a call which is ringing at another service line, provided the called service line is included in a Call Pick-up Group.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

B. KEY EQUIVALENT FEATURES (Continued)

1. Definitions (Continued)

t. Distinctive Ringing and Call Waiting Tone

This feature allows a service line user to determine the type of incoming call before answering it by associating a distinctive ringing pattern or distinctive call waiting tone pattern with the particular call type.

u. Reminder Ring

This feature provides a distinctive ringing signal on a service line at the time a call is forwarded, whenever the service line is equipped with Call Forwarding--Variable or Call Forwarding Over Private Facilities and the call forwarding feature is activated.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

B. KEY EQUIVALENT FEATURES (Continued)

2. Terms and Conditions

Key Equivalent Features are optional features which can effectively perform functions traditionally provided by key equipment when used in certain combinations. However, most of these features can be provided independently of each other. Examples of such features include Call Hold and Call Pickup.

The Call Hold and/or Call Pickup feature is common to each service line in a multiline hunt group. Consequently, rates and charges specified for these features apply to each service line in the same multiline hunt group.

Call Waiting - Terminating and Call Forwarding - Busy Line are mutually exclusive on the same line.

Lines arranged for both Call Forwarding - Busy Line and Call Forwarding - Don't Answer must forward to the same designated line. At the time a service line is initially equipped for Call Forwarding - Don't Answer, it will be arranged for a predetermined number of ringing cycles to be completed before the incoming call is forwarded.

Calls forwarded to lines outside the system can be subject to local and toll message charges. These calls are also subject to transmission limitations.

The Call Hold feature can be provided only on service lines equipped with the Call Transfer feature.

Equipping any service line with Call Transfer - Unlimited or Outside will require all service lines within the same system or group also to be equipped. Call Transfer - Unlimited or Outside cannot be provided on a service line unless the line is also equipped with Call Transfer - Individual.

Equipping any service line with Call Waiting - Terminating, Intragroup will require all service lines within the same system or group that are equipped with Call Waiting - Terminating also to be equipped with Call Waiting - Terminating, Intragroup.

When Call Forwarding - Variable, Outside is provided on any service line within the same system or group, all service lines within the same system or group equipped with Call Forwarding--Variable must be equipped for Call Forwarding - Variable, Outside.

Automatic Callback is only operational for intercommunication calls between service lines served by the same customer group. Only one Automatic Callback request is permitted on the calling and called service lines at one time. Once requested, it will remain active for a period not to exceed 30 minutes unless deactivated by the calling service line.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

B. KEY EQUIVALENT FEATURES (Continued)

2. Terms and Conditions (Continued)

The Call Forwarding Over Private Facilities routing of calls to FX and CCSA network access lines requires special central office modification. Initially, this optional service feature will not be available for the routing of calls via any facility, Automatic Route Selection pattern, or switching service network involving FX. When the central office equipment is subsequently modified, the routing will be made available to the Customer at no additional charge.

The Call Forwarding Over Private Facilities routing of calls to Enhanced Private Switched Communications Service (EPSCS) and Electronic Tandem Switching (ETS) requires special central office modifications separate from the modification specified above. Initially, this optional service feature will not be available for the routing of calls via EPSCS and ETS. When the central office equipment is subsequently modified, the routing will be made available to the Customer at no additional charge.

Incoming local and toll message network and inward WATS calls to service lines arranged for Call Forwarding Over Private Facilities routing are subject to the appropriate charges for such calls and a common recorded announcement is furnished to inform the caller that the call is being forwarded.

Calls forwarded to the local and toll message network and WATS are subject to the appropriate charges for such calls.

When the Attendant Control of Facilities optional service arrangement has been activated, so that calls routed to a specific private facility by the Call Forwarding Over Private Facilities feature are denied, access, those calls will be routed instead to a common recorded announcement which refers the caller to the system's attendant.

When Reminder Ring is requested to be added to a service line and the line is or will be equipped with Call Forwarding -Variable or Call Forwarding Over Private Facilities, the initial charge as specified in "Rates and Charges" following applies per service line affected.

Distinctive Ringing and Call Waiting Tone are furnished in different classes which permit service line users to identify the source of calls. These three classes identify:

<u>Class</u>	<u>Call Source</u>
A	Intercommunication
B	Direct Inward Dialed local and toll Attendant completed CCSA access line Tie line
C	Preemptible SCAN access line Dial Call Waiting Call Waiting--Originating 51A Console night service arrangement

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

B. KEY EQUIVALENT FEATURES (Continued)

2. Terms and Conditions (Continued)

Distinctive ringing is furnished to indicate the source of calls to idle service lines. Distinctive tone is furnished to indicate the source of calls to busy service lines equipped for Call Waiting optional service features.

A distinctive ringtone is furnished to each class and is used to identify all call sources within each class.

Class A ringtone is not furnished separately and is included at no additional charge to service lines arranged for Class B ringtone. Class C ringtone may be furnished separately or in association with Class B ringtone.

Class C tone associated with Call Waiting - Originating or Dial Call Waiting will only be provided where all service lines in the same Customer group are commonly arranged for Class C tone.

Where a Customer's system is equipped with a 51A Console and is arranged for Class B ringtone, Class C ringing will be provided at no additional charge to identify night service arrangement extended calls to service lines.

Caller ID is available for customers with Centrex Service. This feature will only be available from appropriately equipped Central Offices. This feature will not be included in any current Custom Calling discounts.

Calling Name and Number will deliver the calling party's name and number information, except when the calling party name and/or number is not accessible to the network because of where the call originates or when the calling party invokes a per call or per line blocking feature which prevents the name and/or telephone number from being passed.

The Calling Name and Number Customer will be responsible for the provision of the display device which shows the calling party's name and telephone. The installation, repair and technical capability of the device in functioning with Calling Name and Number will be the responsibility of the Customer. The Company assumes no liability and will be held harmless for any incompatibility of this equipment to perform satisfactory with network features associated with this service.

All features are furnished subject to the availability of facilities and capacity.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

B. KEY EQUIVALENT FEATURES (Continued)

3. Rates and Charges

	Service Establishment <u>Charge</u>	Initial <u>Charge</u>	Monthly <u>Rate</u>	<u>USOC</u>
Automatic Callback				
Common equipment, per system	500.00	60.00	42.00	ACY
Per service line equipped	---	4.00	0.80	SAK
Call Forwarding				
Busy line, per line	---	6.00	0.55	E6G E6GNC
Busy line, intragroup, per line	---	6.00	0.55	E6G E6GUR
Don't answer, per line	---	6.00	0.95	E9G E9GNC
Don't answer, intragroup, per line	---	6.00	0.95	E9G E9GUR
Busy line and don't answer, per line	---	6.00	1.10	E5ENC
Busy line and don't answer, intragroup, per line	---	6.00	1.10	E5EUR
Call Forwarding over private facilities				
Common equipment per system	435.00	61.10	130.00	EAY
Per service line equipped	---	3.50	5.50	EAP
Variable, per line	---	6.00	1.10	EAT
Variable, outside, per line	30.00 *	6.00	1.35	E40

* Applies once per system

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

B. KEY EQUIVALENT FEATURES (Continued)

3. Rates and Charges (Continued)

	Service Establishment <u>Charge</u>	Initial <u>Charge</u>	Monthly <u>Rate</u>	<u>USOC</u>
Call Hold, per line	---	6.00	1.70	EAB
Call Pickup, per Call Pickup Group	---	1.60	1.40	E3N
Call pickup, per line	---	6.00	0.65	E3P
Directed call pickup, per line	---	6.00	1.70	DMA
Call Transfer				
Unlimited, per line	---	1.60	0.40	E2H
Outside, per line	30.00 *	1.60	0.55	E9A
* Applies once per system				
Call Waiting				
Terminating, per line	---	6.00	1.25	ESXNC
Terminating, intragroup, per line	30.00 *	6.00	1.65	E6N
* Applies once per system				
Originating, per line	---	6.00	1.95	ESZ
Dial, per line	---	6.00	0.65	E6C
Directed Call Pickup - Non-Barge-In, per line	---	6.00	0.65	E6D

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

B. KEY EQUIVALENT FEATURES (Continued)

3. Rates and Charges (Continued)

	Service Establishment <u>Charge</u>	Initial <u>Charge</u>	Monthly <u>Rate</u>	<u>USOC</u>
Distinctive Ringing and Call Waiting Tone				
Common equipment for either or both Class B and C ringing/tone, per system	145.00	100.00	45.00	DRR
Class B ringing/tone, per service line equipped	---	3.50	1.40	BRT
Class C tone, per service line equipped with Call Waiting - Originating or Dial Call Waiting	---	3.50	0.80	ODT
Class C ringing/tone per preemptible SCAN access line terminal	---	3.50	0.80	CCN
Reminder Ring				
Furnished with the initial installation of Call Forwarding – Variable or Call Forwarding Over Private Facilities optional service features	---	---	---	
Furnished following the initial installation of Call Forwarding -Variable or Call Forwarding Over Private Facilities optional service features, per service line	---	2.40	---	
Caller ID	---	6.50	5.00	NXD
Calling Name and Number	---	6.50	7.00	NXM

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

C. PUBLIC PACKET SWITCHED NETWORK SERVICES

1. Definitions

a. CCITT

Consultative Committee for International Telephone and Telegraph. An international advisory committee set up under United Nations sponsorship to recommend standards for international communications.

b. Character

An alphanumeric or symbolic unit (e.g., A-Z, 0-9, etc.) represented by 8 bits of data.

c. Concentrator

A Public Packet Switched Network component which performs various routing and switching functions.

d. Kilosegment

One thousand segments.

e. Logical Channel

A transmission path within the packet switching network.

f. Network

The integrated communications facilities utilized by the Company in providing its public packet switched data communications service and which are comprised of packet switching and network access equipment.

g. Network Address

Numeric character sequence used to identify the originating and terminating locations of each virtual circuit made within the network.

h. Network User Identification (NUI)

A numeric character sequence, defined by the Company, as a personal identification code for users to access the Public Packet Switched Network. This option is used to establish a local billing record.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

C. PUBLIC PACKET SWITCHED NETWORK SERVICES (Continued)

1. Definitions (Continued)

i. Octet

A character of data information made up of eight successive bits of information. (See character.)

j. Packet

A continuous sequence of bits which is switched as an integral unit through the network. A packet contains up to 128 or 256 octets of Customer data transported to or from a character-oriented station, plus additional transmission and error control information.

k. Packet Assembler/Disassembler (PAD)

A nonregulated component which the Company may provide which supports the Customer interface functions such as, but not limited to, call initiation and transmission interface functions.

l. Packet Switch

The part of the network which performs primary switching and routing functions.

m. Permanent Virtual Circuit

A logical channel between two stations. No call establishment, call termination, or network address are associated with a permanent virtual circuit.

n. Port Termination

A communications interface provided by the Company, through which the Customer or an authorized user obtains connection to the network.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

C. PUBLIC PACKET SWITCHED NETWORK SERVICES (Continued)

1. Definitions (Continued)

o. Protocol

A set of rules for conducting interactions between two or more parties. These rules consist of syntax (header structure), semantics (actions and reactions that are supposed to occur) and timing (relative ordering and duration of states and events). Public Packet Switched Network Services supports 1984 CCITT recommendations. Most 1980 CCITT recommendations are supported but may be subject to availability.

Public Packet Switched Network Services supports the following protocols:

1. Asynchronous Protocol

A form of protocol for X.3, X.28 and X.29 as outlined in the 1984 version of the CCITT recommendation.

2. Synchronous Protocol

A form of protocol that will support certain synchronous IBM 32XX Display System Protocols. For the purposes of this offering synchronous and bi-synchronous are synonymous terms. Provision of this protocol is subject to certain technical limitations.

3. X.25 Protocol

An international standard developed by the CCITT that provides the foundation for public packet switched networks.

4. X.75 Protocol

An international standard developed by the CCITT that provides the foundation for both interstate and international interconnection of individual packet switched networks.

p. Segment

A continuous sequence of bits within a packet. A segment has a billable length of up to 64 octets of Customer data transmitted to or from a character-oriented station.

q. Virtual Circuit

A logical channel established as a result of call establishment procedure to a network address that exists until either end of the channel initiates the call termination procedure.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

C. PUBLIC PACKET SWITCHED NETWORK SERVICES (Continued)

2. Terms and Conditions

Public Packet Switched Network (PPSN) Services are public data network services which utilizes packet technology and analog and digital transmission facilities to provide economical common user switched data transport for traffic of X.25 and X.75 protocol. The network service interconnection meets the transport requirements of a broad variety of data customers such as information and service providers, high speed terminal users and providers of concentrators (either Customer or Company provided).

Customers connect directly to a Company provided packet switched port connection at an X.25 or X.75 protocol via Voice Grade or Digital Data Service Channels provided pursuant to the Company's Access Service Tariff PUCO NO. 2 at speeds of either 2.4, 4.8, 9.6 or 56 Kbps.

The Virtual Call Establishment charge is a usage charge that applies to each attempt to establish a virtual call over a virtual circuit, except the Virtual Call Establishment charge does not apply to the Fast Select call software option.

Fast Select is a feature of X.25 protocol in which Customer data is sent in the initial virtual call establishment. Fast Select permits the user to place up to 128 bytes of additional data in the call request or call clear packets. The Virtual Call Establishment charge does not apply when using the Fast Select feature.

Usage (or traffic) is measured in the number of kilosegments transported within a packet through the Company provided PPSN. For billing purposes, the monthly usage is based on kilosegments and such charges are billed to the Customer responsible for the connection over which the kilosegments are transported. Customers are not charged for segments generated internally by the network for the acknowledgement of information packets, nor are Customers charged for any segments which are retransmitted by a network packet switch upon detection of a transmission error.

Tiered pricing applies to Kilosegment Usage Charges as follows:

Peak Hour Usage Rates: Apply to kilosegments transported between the hours of 7:00 AM to 6:00 PM Monday through Friday and excluding the holidays specified for Off-Peak Hour Usage Rates. Pricing is further tiered by usage level for all kilosegments transported within the specified usage level. Kilosegments, or fractions thereof, over-flowing into the next usage level are billed at the next rate level and so on until usage overflows to the last (or lowest) rate level

Off-Peak Hour Usage Rates: Apply to the total number of kilosegments transported other than from 7:00 AM to 6:00 PM, Monday through Friday. The Off-Peak Hour Usage Rates also apply to the 24-hour period during holidays of New Year's Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

The PPSN is available to local exchange service Customers having individual line nonresidence service, private line service customers, and Centrex customers, subject to the availability of appropriate Company facilities. PPSN is offered only as nonresidential service.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

C. PUBLIC PACKET SWITCHED NETWORK SERVICES (Continued)

2. Terms and Conditions (Continued)

PPSN customers are required to subscribe to an adequate number of access lines as may be required, in the judgment of the Company, to adequately handle incoming calls without impairing the Company's service to others.

The PPSN serving area is all network addresses in the Company's operating territory with access to the PPSN which are capable of receiving calls subject to Closed User Group requirements.

No credit is allowed for interruptions to service of less than sixty minutes. Interruptions of sixty minutes or over, which are reported to the Company and which are not due to the negligence or willful act of the Customer, are credited at the proportionate monthly charge in one hour multiples for each hour or major fraction thereof of interruption from receipt of the report.

PPSN may be removed from service for maintenance purposes, as required by the Company. Credit allowances are not applicable to the time period that PPSN is removed from service unless that time period exceeds one hour, in which case an appropriate credit may be negotiated.

PPSN supports CCITT recommendations and optional facilities and will interface with customer equipment that meets these standards.

PPSN Services support protocol conversion.

When ordering service, the Customer must provide the following information:

The number and location of port connections desired, including estimated usage for each port connection.

The initial set of software features and functions for each port connection.

The transmission speed for each port connection and data channel.

The liability of the Company with respect to PPSN is the same as the liability specified in the Company's Access Services Tariff PUCO NO. 2.

All PPSN billing will be in accordance with the provisions set forth in the Company's Access Services Tariff PUCO NO. 2. All usage charges specified in this section will be billed in arrears.

For billing purposes, each month is considered to have 30 days.

The minimum period for a PPSN port connection is one month.

PPSN service is furnished subject to the availability of facilities.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

C. PUBLIC PACKET SWITCHED NETWORK SERVICES (Continued)

3. Optional Features

a. Additional Logical Channel

Additional transmission path within a PPSN access line. Available on an X.25 interface only.

b. Call Detail

Provides a paper or magnetic tape record of all calls originated from a specific billing account.

c. Call Redirection

Permits a virtual call to be established to a pre-specified alternate address if a destination address is not available.

d. Closed User Group (CUG)

A group of PPSN users which form a subnetwork within the packet switched network. Non-members of the CUG are precluded from making calls to the members of the CUG. Users may be a member of more than one CUG. Members of different Closed User Groups will not be permitted to communicate with each other. Both incoming and outgoing barred options are available within a Closed User Group.

e. Direct Call

When a terminal accesses PPSN it places a call to a predetermined destination.

f. Fast Select Acceptance

Authorizes transmission of incoming calls which request the fast select facility.

g. Hunt Group

An arrangement whereby multiple access lines share a single network address. A Hunt Group can be arranged for up to 30 lines served from the same central office. Incoming calls are distributed to insure that the least used access line is the next selected.

h. Incoming Calls Barred

Incoming calls to an address are barred.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

C. PUBLIC PACKET SWITCHED NETWORK SERVICES (Continued)

3. Optional Features (Continued)

i. Network User Identification

Enables provision of information to the network for billing, security or network management purposes on a per call basis.

j. Outgoing Calls Barred

Outgoing calls from an address are barred.

k. Reverse Charging Acceptance

Permits PPSN usage to be billed on a per call basis to a terminating address. Billing is detailed only for local calls.

l. Permanent Virtual Circuit

A virtual dedicated path between two points.

4. Rate and Charges

The Software Change Charge applies to any changes to software of PPSN ports after service has been established. One charge applies per port for each request, regardless of the number of changes requested by the customer for that port.

The Service Order Administration charge applies, per Customer request, to any installations and/or rearrangements of PPSN services. One Service Order Administration charge applies per request regardless of the number of installations/rearrangements requested by the Customer on that occasion.

The rates and charges for Public Packet Switched Network Services are shown in the Price List Section of this Agreement.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

D SPEED CALLING

1. Definitions

a. Speed Calling 6

A service line user can place calls to a repertory of six telephone numbers by dialing a unique code. Telephone numbers, including routing codes, are limited to a maximum of sixteen digits. Number changes in the list can be made where equipment permits, by the Customer dialing a preset code.

b. Speed Calling 30

A service line user can place calls to a repertory of thirty telephone numbers by dialing a unique code. Telephone numbers, including routing codes, are limited to a maximum of sixteen digits. Number changes in the list can be made where equipment permits, by the Customer dialing a preset code.

2. Terms and Conditions

The Speed Calling feature is common to each service line in a multiline hunt group. Consequently, rates and charges apply to all service lines in the same multiline hunt group.

The option of Speed Calling 6 or 30 is not available to an individual service line when that line is in a multiline hunt group. All lines in the same multiline hunt group must use the same Speed Calling 6 list or Speed Calling 30 list.

The maximum number of lists available for Speed Calling 30 is 100 per customer group.

Speed Calling is furnished subject to the availability of facilities and capacity.

3. Rates and Charges

	<u>Initial Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
Speed Calling 6, per list	6.00	1.10	ESHC6
First line accessing list	1.60	0.55	EST1L
Additional lines accessing list, each	1.60	0.30	ESTAL
Speed Calling 30, per list	6.00	5.25	ESHC3
First line accessing list	1.60	0.55	ESF1L
Additional lines accessing list, each	1.60	0.30	ESFAL

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

E STATION MESSAGE DETAIL RECORDING (SMDR)

1. Terms and Conditions

SMDR is an arrangement to provide a record, by service line number, of originating traffic routing over dial type tie lines, FX, CCSA, IXC access lines, and/or the MTS network (toll) for Customers served from a central office where facilities have been made available.

The station message detail will include the calling service line number, the called number, date, time of day, duration of call, and the type of facility used. The record will be provided on magnetic tape or floppy diskette to Customers requiring message detail for cost allocation and telecommunications system management purposes. The tape density and number of tracks will be those used by the program and data processing system in use by the Telephone Company. The detail will be provided on all facilities in routes selected by the customer for SMDR.

The floppy diskette is only available to accounts with fewer than 45,000 call records per billing period. The diskette will be designed for use with an IBM compatible PC with a 3 1/2 or 1/4 inch, high density disk drive. The call data may be compressed. If compression is used, the Customer will be provided with the software necessary to expand the compressed data.

SMDR may be offered to service lines of Customers whose intercom switching is provided by a central office where facilities permit and where the Company's message billing process has been arranged to provide this optional feature.

SMDR is not represented to be a provision of billing detail. Where tie line, IXC access line, or FX facilities are involved, all such call attempts, whether completed or not, will appear in the SMDR.

Station message details may be provided on all facilities subscribed to by the Customer, including the MTS network (toll), but will not include intercom calls originated by station users. The Customer may designate the group or groups of facilities on which SMDR is to be provided.

SMDR is limited to an entry code, the called service line number or called tie line access code, time of day, date, and duration of call. Calls to service lines or tie lines found busy are ordinarily not recorded.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

E STATION MESSAGE DETAIL RECORDING (SMDR) (Continued)

3. Rates and Charges

	Service Establishment <u>Charge</u>	Initial <u>Charge</u>	Monthly <u>Rate</u>	<u>USOC</u>
Common Equipment per				
Location served by separate switching equipment	---	505.00	47.25	CMM
Facility Group	---	122.00	---	CMW
Station Message Detail, Per Message, each	---	---	0.009	
Line Equipment per				
Tie line	2088.00 (See Note)	1.75	4.60	CMT
Interexchange Carrier access line	2088.00 (See Note)	1.75	4.60	CMZ
Foreign Exchange Line	2088.00 (See Note)	1.75	4.60	CMQ
Media Charge				
Floppy Diskette	---	---	3.00	
Mag Tape	---	---	55.00	

Note: Applicable only at the time the switching equipment is arranged to provide SMDR on the initial tie line, initial foreign exchange line, or interexchange carrier access line for each customer and is applicable to each switching equipment unit so arranged.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

F UNIFORM CALL DISTRIBUTION

1. Definitions

a. Calls Waiting Indication

A feature in the switching equipment which provides control for lamp indicators located on a Customer's premises to indicate that calls have been waiting in queue longer than a specified time limit. Up to three separate lamp indicators may be provided to indicate different lengths of delay.

b. Delay Announcement

A feature in the switching equipment which provides for a recorded message to be given to calls waiting in queue longer than a Customer specified time interval (6 to 42 seconds in six second increments).

c. Make Busy (Group and/or Line)

A feature in the switching equipment through which all lines in the Uniform Call Distribution group or individual lines within the Uniform Call Distribution group can be artificially made busy by manually operating a key or keys located on a Customer's premises.

d. Queuing (UCD/Q)

Reserves space within the switching equipment for incoming calls to the Uniform Call Distribution main line hunt number to be held in their order of arrival if all lines within the Uniform Call Distribution group are busy, and there is sufficient reserved space for the calls.

e. Uniform Call Distribution (UCD)

UCD provides even distribution of incoming message network and/or intercommunicating calls to the group of lines designated as part of the UCD group.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

F UNIFORM CALL DISTRIBUTION (Continued)

2. Terms and Conditions

Uniform Call Distribution is a hunting arrangement available to lines arranged in a multiline hunt group. Incoming calls to the line (main hunt) number of the group will hunt throughout the lines in a fixed sequence, except that once a call has been completed to a line, a pointer within the switching equipment will advance to the next idle line. The next incoming call will go directly to that line if it is still available. If it is not, the call will either be directed to the next idle line in the hunting sequence or, if all lines in the hunting group are busy, it will receive a busy tone.

Individual lines in the UCD group may have line numbers assigned so that calls may be directed to them. Calls directed to these lines, except the main line hunt group number, will not have access to any of the UCD group features.

All call forwarding features as specified in this Agreement cannot be provided on lines in a UCD group with the queuing option. However, Call Forwarding - Busy Line can be provided in conjunction with Group Make Busy. This provision will negate the queuing option and can be provided only with the lead line number of the group (group option).

Call Pickup and Call Hold may be provided to lines in the UCD group on a group basis only. When provided, each line in the group will be subject to the rates and charges for the feature(s). However, Call Pickup is not compatible with the queuing option.

The call waiting audible indication is not available to lines in a UCD group.

Speed Calling 6 and Speed Calling 30 may be provided to lines in a UCD group on a group basis only. Each line in a UCD group will be equipped for speed calling; consequently, each line will be subject to the rates and charges specified in this section for the speed calling feature. However, Speed Calling 6 and Speed Calling 30 cannot both be provided to the same service line in a UCD group.

Customers may subscribe to Group Make Busy, Line Make Busy, and UCD queuing. Instead of Line Make Busy, Directed Call Pickup as specified in this section may be provided to the UCD group in order for calls directed to unoccupied lines to be answered from another location. When queuing is added to a UCD group, delay announcement and calls waiting lamp indication can also be provided.

Any other optional service and/or features which are compatible with UCD and UCD/Q may be provided, subject to rates and charges specified in this section or elsewhere in this Agreement.

This feature and options are furnished subject to the availability of facilities, capacity, and compatibility.

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

F UNIFORM CALL DISTRIBUTION (Continued)

3. Rates and Charges

	<u>Initial Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
Per hunt group	55.00	---	A6T
Service line in the hunting group, each	6.00	0.55	A6V
Queue slot, each			
Common equipment	165.00	7.00	A8A
Service line arranged for queuing, each	1.60	4.30	A82
Queue slot, each	22.00	2.00	A83RA
Line Additive for incoming call queuing			
Restricted Centrex or service line additive for incoming call queuing	1.60	50.75	A6Z
Exchange access additive for each Centrex service line in the queue	1.60	43.10	A6W
Intercom additive for each Centrex service line in the queue	1.60	7.65	A6Y
Calls waiting indication, per unique timing state	106.50	4.15	A66CE
Delay announcement Per announcement (limit one)	63.70	61.00	A8GCE
Per announcement trunk	119.70	9.05	A8GAT
Per service line	1.60	2.25	A8GST

CINCINNATI BELL TELEPHONE COMPANY LLC
Local Telephone Service Agreement – Kentucky

Section 18 – Obsolete Features - PBX, Centrex, Hunting and Packet Switching

F UNIFORM CALL DISTRIBUTION (Continued)

3. Rates and Charges (Continued)

	<u>Initial Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
Make busy arrangements			
Per group	125.00	2.20	A9A
Per service line	63.70	2.20	A6G