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BELLSOUTH
TELECOMMUNICATIONS
GEORGIA

ACCESS SERVICES TARIFF

Fourteenth Revised Page 1
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BY: President - Georgia
Atlanta, Georgia

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E7. SPECIAL ACCESS (a.k.a. BellSouth SPA) SERVICE

E7.1 General

Special Access (a.k.a. BellSouth SPA) service provides a transmission path to connect customer designated premises¹, either directly or through a Company hub where bridging or channelization functions are performed. Special Access (a.k.a. BellSouth SPA) service² includes all exchange access not utilizing Company end office switches.

The connections provided by Special Access (a.k.a. BellSouth SPA) service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

E7.1.1 Channel Types

- A. There are eight types of channels used to provide Special Access (a.k.a. BellSouth SPA) services. Each type has its own characteristics. All are subdivided by one or more of the following:
 - Transmission specifications
 - Bandwidth
 - Speed (i.e., bit rate)
 - Spectrum
- B. Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.
- C. For purposes of ordering channels, each has been identified as a type of Special Access (a.k.a. BellSouth SPA) service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as Metallic (a.k.a. BellSouth SPA Metallic) service in this Tariff, there is no restriction against doing so.
- D. Following is a brief description of each type of channel:
 1. Telegraph (a.k.a. BellSouth SPA Telegraph) Grade - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.
 2. Voice Grade (a.k.a. BellSouth SPA DS0 VG)- a channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz.
 3. WATS Access Line (a.k.a. BellSouth SPA WATS Line)(WAL) - a channel from a customer designated premises to a WATS serving office for BellSouth SWA 8XX Toll Free Dialing Ten Digit Screening Service, WATS (a.k.a. BellSouth SPA WATS Line) or similar service.
 4. Wired Music³ - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz. (N)
 5. **(DELETED)**
 6. Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps.
 7. High Capacity (a.k.a. BellSouth SPA High Capacity) - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, or 44.736 Mbps.
 8. Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) - a digital data channel derived from a two-wire local exchange facility that transmits voice and data signals simultaneously.

Note 1: Company Answering Service Concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this Tariff.

Note 2: For purposes of administering the surcharge regulations, WATS (a.k.a. BellSouth SPA WATS Line) access lines are considered to be Special Access (a.k.a. BellSouth SPA) service.

Note 3: Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.1 General (Cont'd)

E7.1.4 Alternate Use

- A. Alternate Use occurs when a service is arranged by the Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternative use, the Company will make such special arrangements available on an individual case basis.
- B. The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section E12., Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Local Channels, Interoffice Channels as applicable, and Optional Features and Functions, if any.)

E7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access (a.k.a. BellSouth SPA) service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable Only) are as set forth in Section E11. following.

E7.1.6 Design Layout Report

At the request of the customer, the Company will provide to the customer the make-up of the facilities and service provided under this Tariff as Special Access (a.k.a. BellSouth SPA) service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report.

The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

E7.1.7 Acceptance Testing

- A. At no additional charge, the Company will, at the customer's request, cooperatively test, at the time of installation, the following parameters:
 1. For Voice Grade (a.k.a. BellSouth SPA DS0 VG) services, acceptance tests will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order of service. Additionally, for Voice Grade (a.k.a. BellSouth SPA DS0 VG) services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
 2. For other analog services (i.e., Telegraph (a.k.a. BellSouth SPA Telegraph), WATS Access Line (a.k.a. BellSouth SPA WATS Line) and Wired Music⁽¹⁾ and for digital services (i.e., Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data), WATS Access Line (a.k.a. BellSouth SPA WATS Line) and High Capacity (a.k.a. BellSouth SPA High Capacity)), acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.
- B. In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade (a.k.a. BellSouth SPA DS0 VG) service to test other parameters, as described in E13.3.5.B. following, is available at the customer's request. All test results will be made available to the customer upon request.

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E7.1.8 Ordering Options and Conditions

- A. The ordering option available to the customer in the provision of Special Access (a.k.a. BellSouth SPA) service is the Access Order.
- B. This option is set forth in detail in Section E5. preceding. Also included in that section are other charges which may be associated with ordering Special Access (a.k.a. BellSouth SPA) service (e.g., Service Data Change Charges, Cancellation Charges, etc.)
- C. For the purposes of ordering, there are seven categories of Special Access (a.k.a. BellSouth SPA) service. These are:
 1. Telegraph (a.k.a. BellSouth SPA Telegraph) Grade (TG)

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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Eleventh Revised Page 7
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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.1 General (Cont'd)

E7.1.8 Ordering Options And Conditions (Cont'd)

- C. For the purposes of ordering, there are nine categories of Special Access (a.k.a. BellSouth SPA) service. These are: (Cont'd)
2. Voice Grade (a.k.a. BellSouth SPA DS0 VG) (VG)
 3. Wired Music⁽¹⁾ (AP)
 4. ***Reserved for Future Use***
 5. Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service (DDAS)
 6. High Capacity (a.k.a. BellSouth SPA High Capacity) (HC)
 7. Self-Healing Rings (SMARTRing service [a.k.a. BellSouth Dedicated Ring])
 8. WATS Access Line (a.k.a. BellSouth SPA WATS Line) (WAL)
 9. Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) service (DDCS)
- D. Each service consists of a basic channel to which a predefined technical specifications package, channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Each of the components of the service is described in this section. Terms, conditions, and ***rates for Physical Access Collocation Cross-Connects and Virtual Access Collocation Cross-Connects*** are ***set forth in Section E13. of this Tariff for those services that are permitted to connect directly to a carrier's collocation space.***
- E. The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Company hub where bridging and/or channelization functions are performed.
- F. Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VG1. The first two letters of the code indicate the category of Special Access (a.k.a. BellSouth SPA) service to which the parameters are applicable. These two-letter codes are shown above in parentheses following the category of Special Access (a.k.a. BellSouth SPA) service. The number "1" following the two-letter code indicates the technical specifications package for a voice grade (a.k.a. BellSouth SPA DS0 VG) service. An alphanumeric designation following the two-letter code indicates the specific predefined package. When appropriate, the Technical Reference that contains detailed specifications for the parameters is shown following the matrix.
- G. Channel interfaces at each point of termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical. However, communications can only be provided between points of termination with compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in a combination format.
- Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth at the end of this E7.2.
- H. The optional features and functions available with each type of Special Access (a.k.a. BellSouth SPA) service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the top.
- I. The Company will maintain existing transmission specifications on services installed prior to the effective date of this Tariff, except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this Tariff.

All services installed after the effective date of this Tariff will conform to the transmission specification standards contained in this Tariff or in the following Technical References for each category of service:

Telegraph Grade (a.k.a. BellSouth SPA Telegraph)	TR-NPL-000336
Voice Grade (a.k.a. BellSouth SPA DS0 VG)	TR-NPL-000335
	PUB 41004, Table 4
Wired Music ⁽¹⁾	TR-NPL-000337

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.3 Voice Grade (a.k.a. BellSouth SPA DS0 VG) Service (Cont'd)**

- F. WATS Access Line (WAL) (a.k.a. BellSouth SPA WATS Line) service (Cont'd)
4. Optional Features and Functions (Cont'd)
- d. One-way or Two-way Capability

E7.2.4 Wired Music⁽¹⁾ Service

(N)

A. Basic Channel Description

A Wired Music⁽¹⁾ channel is a channel specified in bandwidth for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Wired Music⁽¹⁾ channels are provided between customer designated premises and a Company Hub.

(N)

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B. Technical Specifications Packages

Parameter	Package AP-			
	1	2	3	4
Actual Measured Loss	X	X	X	X
Amplitude Tracking				
Crosstalk	X	X	X	X
Distortion Tracking				
Gain/Frequency				
Distortion	X	X	X	X
Group Delay				
Noise	X	X	X	X
Phase Tracking				
Short Term Gain				
Stability				
Short-Term Loss				
Total Distortion	X	X	X	X

The technical specifications are delineated in Technical Reference TR-NPL-000337.

C. Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Wired Music⁽¹⁾ channel:

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CI	Bandwidth
PG-3	Nominal frequency from 200 to 3500 Hz
PG-5	Nominal frequency from 100 to 5000 Hz
PG-8	Nominal frequency from 50 to 8000 Hz

Compatible channel interfaces are set forth in Technical Reference TR-NPL-000337.

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.4 Wired Music⁽¹⁾ Service (Cont'd)**

(N)

D. Optional Features and Functions

1. Central Office Bridging Capability
Distribution Amplifier
2. Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0db + or - 0.5 dB.

Available with Technical Specifications Package AP-

	1	2	3	4
Central Office Bridging Capability				
	X	X	X	X
Gain Conditioning	X	X	X	X

E7.2.5 Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) Service**A. Basic Channel Description**

A Digital Data (*a.k.a. BellSouth SPA DS0 Digital Data*) channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56, or 64 Kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Company through the Company's facilities to the customer in the received bit stream. Digital Data (*a.k.a. BellSouth SPA DS0 Digital Data*) channels are only available via Company designated Digital Data (*a.k.a. BellSouth SPA DS0 Digital Data*) Hubs and are provided between customer designated premises or between a customer designated premises and a Company Digital Data (*a.k.a. BellSouth SPA DS0 Digital Data*) Hub.

A Hub termination charge applies per Digital Local Channel. This rate element covers the Hub functions (e.g., timing, testing) for the service.

Secondary Channel Capability (SCC) is a derived companion digital transmission path that is independent of the primary data path and operates at a substantially lower bit rate. This derived channel allows the customer to perform network management functions during the normal operation of the network. This diagnostics channel utilizes a portion of a customer's previously unavailable data bit stream allowing for the ability to remotely control and test the network and peripheral devices without taking the network out of service. Special customer equipment is necessary to utilize the benefits of the Secondary Channel. Customers not wishing to utilize this capability will not be impacted. Due to transmission equipment restrictions, Secondary Channel cannot be provided on 56 Kbps circuits that require the installation of loop repeater equipment for provision of service. Secondary Channel capability, also, cannot be provided on 64 Kbps circuits, since all of the available bit stream will be used by the customer.

The customer will provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

B. Technical Specifications Packages

	Package DA-					
Parameter	1	2	3	4	5	6
Error-Free Seconds	X	X	X	X	X	X

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.1 Types Of Rates And Charges (Cont'd)

A. (Cont'd)

2. Nonrecurring Charges (Cont'd)

- Installation of service,
- Installation of optional features and functions, and
- Service rearrangements

The following list identifies the individual Special Access (a.k.a. BellSouth SPA) services provided under Section E7. of this Tariff which are eligible for credit of nonrecurring charges under "Service Installation Guarantee" found in E2.4.10 of this Tariff. Customers with these services are not eligible for the Service Installation Guarantee when the requested installation, move or rearrangement service order interval is four days or less as measured from the Application Date of the order.

- Voice Grade (a.k.a. BellSouth SPA DS0 VG),
- Wired Music²,
- Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service¹,
- High Capacity (a.k.a. BellSouth SPA High Capacity) service
- SMARTPath service (a.k.a. BellSouth SPA Shared Ring)
- SMARTRing service (a.k.a. BellSouth Dedicated Ring)

Provided, however, that the following services are not eligible for such credit.

- ***BellSouth Customer Network Management Service***
- Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) service
- BellSouth Metro Ethernet Service

a. Installation of Service

Nonrecurring charges apply to each service installed. When one service is ordered and installed, it is billed at the First Service Installed rate. When more than one of the same type of service, between the same locations, for the same customer is ordered and installed at the same time, one at each location is billed at the First Service Installed rate and the others are billed at the Additional Service Installed rate.

(N)

Note 1: The Data Over Voice Channel optional feature is not eligible for such credit.

Note 2: Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.5 Moves (Cont'd)

- B. The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.
 1. Moves Within the Same Building
When the move is to a new location within the same building the charge for the move will be an amount equal to one-half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirement.
 2. Moves To a Different Building
Moves to a different building, other than addressed in 3. following, will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.
 3. Moves of Service(s) under CSPP
Customer requests for moves of service under CSPP, other than inside moves, will be subject to the conditions stated in E2.4.9.A.8. preceding.

E7.4.6 Mileage Measurement

- A. The mileage to be used to determine the monthly rate for the Interoffice Channel is calculated on the airline distance between the locations involved i.e., the serving wire centers associated with two customer designated premises, a serving wire center associated with a customer designated premises and a Company hub, a serving wire center associated with a customer designated premises and a WATS serving office, or two Company hubs. The serving wire center associated with a customer designated premises is the serving wire center from which the customer designated premises would normally obtain dial tone.
- B. Mileage is shown in E7.5.2 following in terms of mileage bands. To determine the rate to be billed, first compute the mileage using the V and H coordinates method, as set forth in the National Exchange Carrier Association Tariff F.C.C. No. 4, then find the band into which the computed mileage falls and apply the rates shown for that band. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the rates.
- C. When Hubs are involved, mileage rates are computed and rates applied separately for each section of the Interoffice Channel, i.e., customer designated premises serving wire center to Hub, Hub to Hub and/or Hub to customer designated premises serving wire center. However, when any service is routed through a hub for purposes other than customer specified bridging or channelization (e.g., the Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises. For the purpose of applying multipoint charges, the bridging or hubbing locations are determined by that combination of airline distances connecting the serving wire center which will produce the lowest interoffice mileage charges.
- D. SMARTRing service (a.k.a. BellSouth Dedicated Ring) Local Channel, Alternate Central Office Channel and Internodal Channel rates are also distance sensitive. They are measured per quarter airline mile or fraction thereof from the customer's designated premises to the Serving Wire Center, Alternate Central Office, or other Customer Nodes. V&H coordinates are derived for each customer location through the use of longitude and latitude measurements. Using the V&H coordinate method as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC. No. 4, compute the mileage, convert to quarter miles, and multiply the appropriate per quarter mile rate by the distance involved. Any portion of a quarter mile will always round up to the next quarter mile before determining the mileage and applying the rate.
- E. The SMARTRing service (a.k.a. BellSouth Dedicated Ring) Interoffice Channel mileage is calculated per quarter airline mile between two directly connected central offices on the ring. Interoffice Channel mileage is computed by using the V&H coordinates method as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC. No. 4. To determine the rate to be billed, multiply the appropriate per quarter mile rate by the distance involved. Fractions of a quarter mile always round up to the next quarter mile before determining the mileage and applying the rate.

E7.4.7 Facility Hubs

A customer has the option of ordering Voice Grade (a.k.a. BellSouth SPA DS0 VG) facilities or digital high capacity (a.k.a. BellSouth SPA High Capacity) facilities (i.e., DS1, DS1C, DS2 or DS3) to a facility Hub for channelizing to individual services requiring lower capacity facilities (e.g., Telegraph (a.k.a. BellSouth SPA Telegraph), Voice (a.k.a. BellSouth SPA DS0 VG), Wired Music⁽¹⁾, etc. (N)

Different locations may be designated as Hubs for different facility capacities, e.g., channelization from digital to digital may occur at one location while channelization from digital to analog may occur at a different location. When ordering, the customer will specify the desired channelization Hub(s) selected from the National Exchange Carrier Association Tariff F.C.C. No. 4. This tariff identifies the type(s) of channelization functions which are available and the serving wire centers at which they are available.

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021. (N)

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.7 Facility Hubs (Cont'd)**

Some of the types of channelization available include the following:

- from higher to lower bit rate
- from digital to voice frequency channels

End to end services may be provided on channels of these facilities to a hub. The transmission performance for the end to end service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is channelized to voice frequency channels, the transmission performance of the channelized services will be Voice Grade (*a.k.a. BellSouth SPA DS0 VG*), not High Capacity (*a.k.a. BellSouth SPA High Capacity*).

The Company will commence billing the monthly rate for the facility to the Hub on the date specified by the customer on the service order. Individual services utilizing these facilities may be installed coincident with the installation of the facility to the Hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) or digital Local Channel, Interoffice Channel, if applicable and the Basic Channelization System at the time the facility is installed. DS1 and DS0 Basic Channelization Systems require a Central Office Channel Interface for activation of each lesser capacity channel. DS3 to DS1 channelization arrangements, for transport of intrastate DS1 service high capacity channels via LightGate service (*a.k.a. BellSouth SPA Point to Point Network*) and SMARTRing service (*a.k.a. BellSouth SPA Shared Ring*), requires a DS1 channel interface for activation of each DS1 channel. Individual service rates (by service type) will apply for a Local Channel, additional Interoffice Channel and Central Office Channel Interface(s) (as required), if applicable, for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading channelization occurs when a high capacity analog or digital channel is channelized to provide channels with a lesser capacity and one of the lesser capacity channels is further channelized.

When cascading channelization is performed, whether in the same or a different Hub, a charge for the additional Basic Channelization System and Central Office Channel Interface(s) also applies. A DS1 Basic Channelization System and DDAS (*a.k.a. BellSouth SPA DS0 Digital Data*) Central Office Channel Interface are required for high speed or low speed DDAS (*a.k.a. BellSouth SPA DS0 Digital Data*) activations when channelized from a DS1 (1.544 Mbps) channel. A DS0 Basic Channelization System and Subrate Central Office Channel Interface are required for subrate activations of 2.4, 4.8 and 9.6 Kbps when channelized from a DS0 (64 Kbps) channel. When cascading channelization is performed at different Hubbing locations, Interoffice Channel charges also apply between the Hubs.

Although not requiring channelization, the Company will designate certain hubs for Wired Music⁽¹⁾ services. A customer can order service(s) between customer designated premises and a hub and will be billed accordingly at the rates set forth in E7.5.4 and E7.5.5 following for the service, as appropriate. The customer will be charged for each such connection made at the rates for Other Labor as set forth in E13.2.6.(c) following. The rates that apply for the service between each customer designated premises and the hub are a Local Channel and Interoffice Channel, if applicable. In addition, for Wired Music⁽¹⁾ services, rates for optional features and functions may be applicable.

(N)

(N)

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

(N)

(N)

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ACCESS SERVICES TARIFF

Eighth Revised Page 39
Cancels Seventh Revised Page 39

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.3 Voice Grade (a.k.a. BellSouth SPA DS0 VG) Service (Cont'd)****D. WATS Access Lines (a.k.a. BellSouth SPA WATS Line)****2. Interoffice Channel****a. Mileage Bands****(1) Fixed Rate**

	Fixed Monthly Charge	Monthly Charge Per Mile	Nonrecurring Charge	USOC
(a) 0 mile	\$-	\$-	\$-	1LFFX
(b) 1 thru 8 miles	50.40	3.24	126.00	1LFFX
(c) 9 thru 25 miles	50.40	3.24	126.00	1LFFX
(d) Over 25 miles	50.40	3.24	126.00	1LFFX

3. Optional Features**a. Improved Two-Wire Voice Transmission Specifications****(1) For WATS Access Lines (a.k.a. BellSouth SPA WATS Line)**

	Monthly Rate	Nonrecurring Charge	USOC
(a) Two-Wire	\$24.00	Initial \$46.80 Subsequent \$105.60	X2T
b. WATS Access Line (a.k.a. BellSouth SPA WATS Line) Bridging			
(1) Per port			

	Monthly Rate	Nonrecurring Charge	USOC
(a) Two-Wire	\$16.00	\$42.00	BCNV2
(b) Four-Wire	18.00	42.00	BCNV4

E7.5.4 Wired Music⁽¹⁾ Service

(N)

A. Local Channel**1. Per Point of Termination**

		Nonrecurring Charge			
		Monthly	First Service Installed	Additional Service Installed	USOC
(a)	200 to 3500 Hz	\$42.00	\$630.00	\$276.00	T6ECS
(b)	100 to 5000 Hz	54.00	732.00	360.00	T6ECS
(c)	50 to 8000 Hz	60.00	750.00	378.00	T6ECS

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

(N)

(N)

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.4 Wired Music⁽¹⁾ Service (Cont'd)**

(N)

B. Interoffice Channel⁽¹⁾

(N)

1. 200 to 3500 Hz

Mileage Bands

	Fixed Monthly Charge	Monthly Charge Per Mile	Nonrecurring Charge	USOC
(a) 0 mile	\$-	\$-	\$-	1L5XX
(b) 1 thru 8 miles	38.40	2.46	103.20	1L5XX
(c) 9 thru 25 miles	38.40	2.40	103.20	1L5XX
(d) Over 25 miles	38.40	2.34	103.20	1L5XX

2. 100 to 5000 Hz

Mileage Bands

				USOC
(a) 0 mile	-	-	-	1L5XX
(b) 1 thru 8 miles	60.00	4.92	91.20	1L5XX
(c) 9 thru 25 miles	60.00	4.80	91.20	1L5XX
(d) Over 25 miles	60.00	4.68	91.20	1L5XX

3. 50 to 8000 Hz

Mileage Bands

				USOC
(a) 0 mile	-	-	-	1L5XX
(b) 1 thru 8 miles	84.00	7.38	91.20	1L5XX
(c) 9 thru 25 miles	84.00	7.20	91.20	1L5XX
(d) Over 25 miles	84.00	7.02	91.20	1L5XX

C. Optional Features and Functions⁽¹⁾

(N)

1. Bridging, Distribution Amplifier

	Monthly Rate	Nonrecurring Charge	USOC
(a) Per port	\$2.40	\$44.40	BCNPT

2. Gain Conditioning

	Monthly Rate	Nonrecurring Charge		USOC
		Initial	Subsequent	
(a) Per service	\$-	\$26.40	\$66.00	XGC

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.6 High Capacity (a.k.a. BellSouth SPA High Capacity) Service (Cont'd)****C. Optional Features and Functions (Cont'd)****2. Channel Interfaces (Per Interface)****a. Sub-DS3 Interfaces****(1) DS1 Level Central Office Channel Interface¹**

	Month to Month	24 to 48 Months ²	49 to 72 Months ²	73 to 96 Months ²	Nonrecurring Charge	USOC
(a) Asynchronous	\$12.00	\$8.00	\$7.00	\$6.00	\$155.00	1D3CA
(b) Synchronous	36.00	31.00	28.00	25.00	130.00	1D3CS
(2) DS1 Level Customer Channel Interface¹						
(a) Asynchronous	17.00	13.00	13.00	13.00	295.00	1D3DA
(b) Synchronous	45.00	36.00	33.00	30.00	245.00	1D3DS

b. Sub-DS1 Interfaces**(1) VG/DS0 Level Central Office Channel Interface**

	Monthly Rate	Nonrecurring Charge First	Additional	USOC	
(a) <i>BelSouth SWA</i>	\$0.00	\$0.00	\$0.00	1D1SW	
(b) Telegraph (<i>BellSouth SPA Telegraph</i>)	5.00	7.00	6.00	1D1TE	
(c) Voice (<i>BellSouth SPA DS0 VG</i>)	9.00	7.00	6.00	1D1VG	
(d) WATS Access Line (<i>BellSouth SPA WATS Line</i>)	9.00	7.00	6.00	1D1WT	
(e) Wired Music ⁴ - Monthly	37.00	7.00	6.00	1D1PA	(N)
(f) Wired Music ⁴ - Daily	4.00	7.00	6.00	1D1PA	(N)
(g) DDAS (<i>BellSouth SPA DS0 Digital Data</i>)	13.00	7.00	6.00	1D1DD	

c. Sub-DS0 Interfaces**(1) Subrate Level Central Office Channel Interface**

(a) Subrate (2.4, 4.8 & 9.6 Kbps)	13.00	7.00	6.00	1DOSR
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3. Reserved for future use.

Note 1: Contract rates are flexible to allow customer choice of payment period per E2.4.9.

Note 2: Effective May 8, 2019, Customers may not: (1) Establish CSPPs greater than 36 months for High Capacity Service, and (2) Convert or renew CSPPs for High Capacity Service.

Note 3: An additional Local Channel charge will apply whenever the spare line is provided as a leg to the customer premises.

Note 4: Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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E30. ETHERNET SERVICES**E30.2 AT&T DEDICATED ETHERNET SERVICE****E30.2.1 Service Description**

- (A) AT&T Dedicated Ethernet Service is a fiber based, point-to-point, Ethernet service that allows Customers to transport data signals between two locations. AT&T Dedicated Ethernet Service can be used to transport data as an Ethernet signal or embedded within an Optical Transport Network (OTN) signal.

AT&T Dedicated Ethernet Service is available at the following speed and format options:

Speed	Ethernet Formats	Optical Transport Unit (OTU) Formats
1Gbps	1GE - Gigabit Ethernet	Not available
2.5Gbps	Not available	OTU1
10Gbps	10GE LAN-PHY	OTU2e
	10GE WAN-PHY	OTU2
40Gbps	40GE	OTU3
100Gbps	100GE	OTU4

- (B) The Telephone Company reserves the right to make individualized decisions regarding the provision of AT&T Dedicated Ethernet to individual customers. The Telephone Company may negotiate the specific prices and terms for AT&T Dedicated Ethernet for each individual customer. Unless otherwise specified in this section, the general terms and conditions of this Intrastate Access Tariff apply to AT&T Dedicated Ethernet service (e.g., Section 2). (T)

(C) Port Connection

The Port Connection is the standard rate element that includes the service interface (point of demarcation) at the Customer-designated premises (Customer Site), any network termination equipment (NTE) placed at the Customer Site, and the physical transport facilities from the Customer Site to the AT&T Dedicated Ethernet network at the serving wire center for that Site. (T)

One Port Connection charge applies per Customer Site at which the Port Connection is terminated. This charge will apply even if the Customer Site and the serving wire center are both located in the same Telephone Company building (e.g., where the Customer Site is a collocation arrangement⁽¹⁾, Carrier Point-of-Presence, etc.).

Rates and charges for the Port Connection are provided in Section E30.2.5.

⁽¹⁾ In addition to a Port Connection charge, cross connect charges will also apply under the applicable tariffs for connecting AT&T Dedicated Ethernet Service to a collocation arrangement.